

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P190968

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-AFL-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49955.8 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

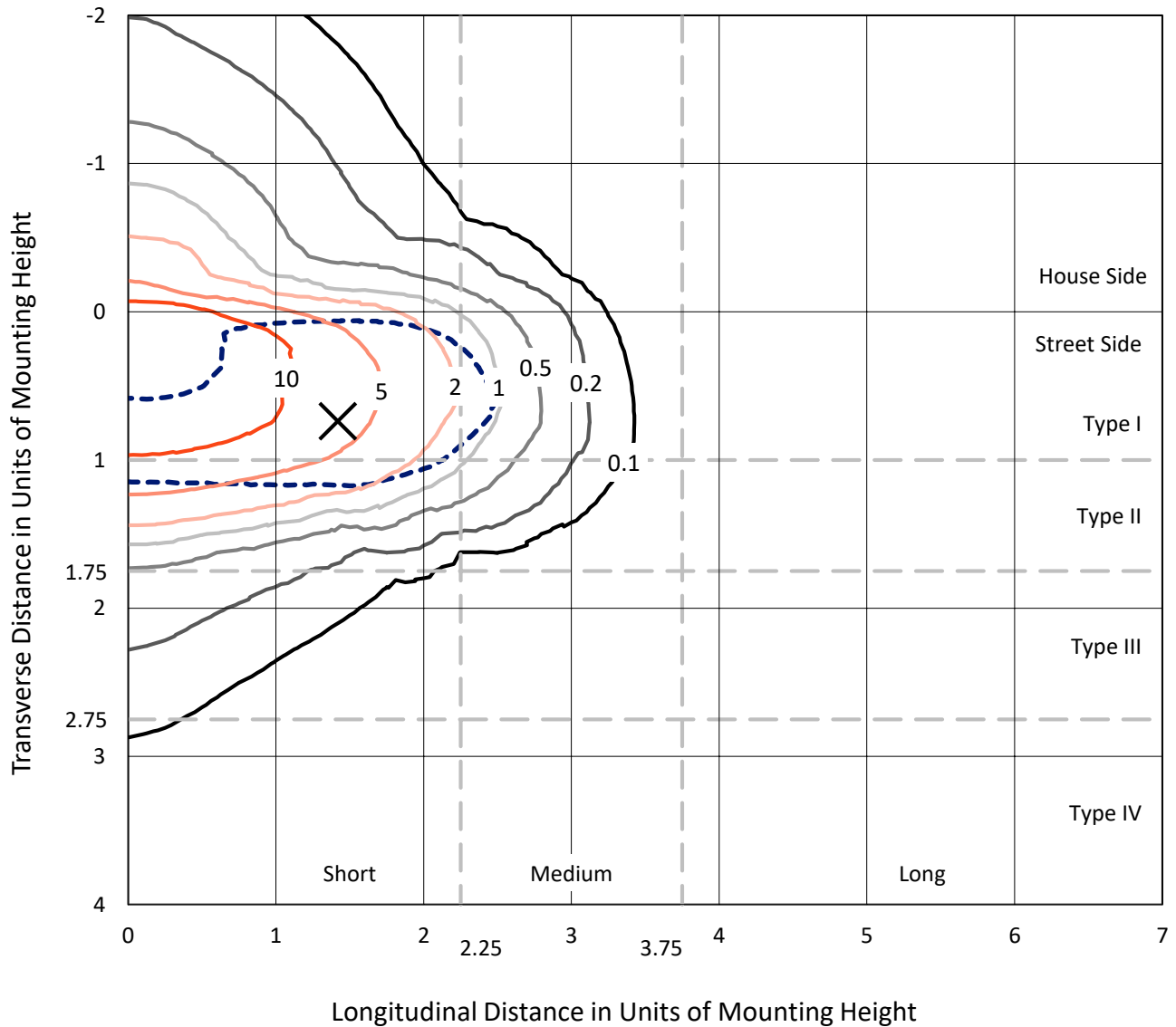


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

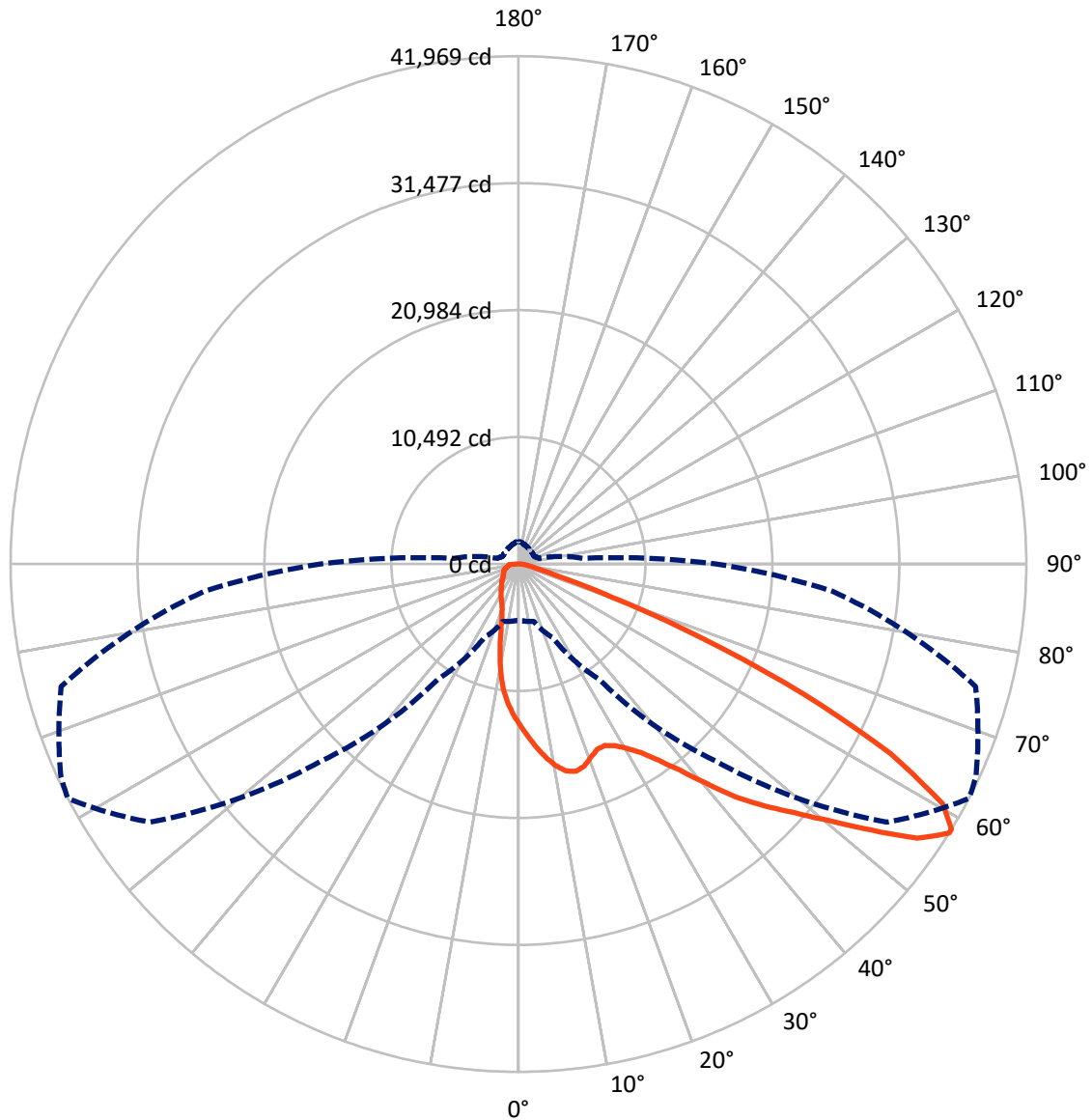


Based on 30 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7618.4	0.0	7618.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	42337.3	0.0	42337.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	49955.8	0.0	49955.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1186.8	2.4
10°-20°	3033.6	6.1
20°-30°	4903.9	9.8
30°-40°	7784.9	15.6
40°-50°	11391.0	22.8
50°-60°	11914.0	23.8
60°-70°	7038.8	14.1
70°-80°	1982.9	4.0
80°-90°	719.9	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49955.8	100.0
0°-180°	49955.8	100.0



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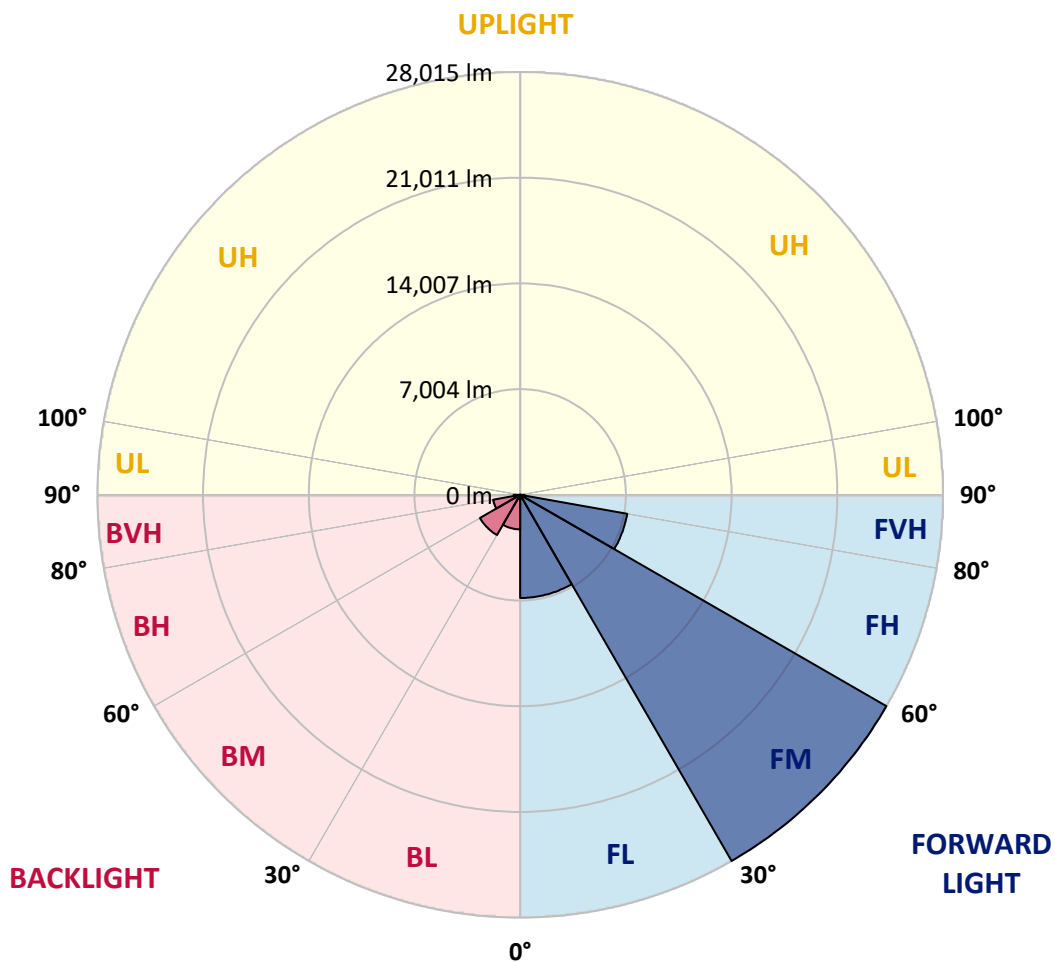
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6834.6	13.7			
FM	(30°-60°)	28014.9	56.1			
FH	(60°-80°)	7203.8	14.4			G3/7500
FVH	(80°-90°)	284.0	0.6			G3/500
BL	(0°-30°)	2289.7	4.6	B3/2500		
BM	(30°-60°)	3075.0	6.2	B3/5000		
BH	(60°-80°)	1817.8	3.6	B3/2500		G3/2500
BVH	(80°-90°)	435.9	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7
2.5°	15163.4	15041.1	14963.4	14895.2	14805.9	14615.3	14358.9	14196.6	14114.3	13834.3	13502.6
5°	16650.1	16541.9	16461.9	16370.2	16210.2	15911.5	15497.4	15168.1	15005.8	14445.9	13782.5
7.5°	16301.9	16346.7	16485.5	16727.7	16934.7	16894.7	16525.5	16106.7	15892.7	15114.0	14107.2
10°	14203.7	14281.2	14521.2	15088.1	16005.6	16946.5	17233.4	16944.2	16727.7	15775.0	14441.2
12.5°	13782.5	13780.2	13799.0	13949.6	14495.3	15819.7	17257.0	17548.7	17419.3	16405.5	14782.4
15°	13954.3	13959.0	13944.9	14008.4	14177.8	14702.4	16537.2	17781.5	17873.3	17040.6	15135.2
17.5°	14405.9	14394.1	14340.0	14340.0	14401.2	14605.9	15690.3	17565.2	17988.6	17602.8	15445.6
20°	15163.4	15109.3	14965.8	14834.1	14768.2	14878.7	15342.2	17066.5	17788.6	18094.5	15702.1
22.5°	16080.8	16038.4	15805.6	15523.3	15295.2	15292.8	15520.9	16631.2	17442.8	18557.9	15918.5
25°	17266.4	17198.2	16852.4	16400.8	16000.9	15848.0	15911.5	16610.2	17254.6	19061.3	16111.4
27.5°	18659.0	18534.3	18125.1	17473.4	16885.3	16577.2	16485.5	16993.6	17426.4	19684.6	16379.6
30°	20348.0	20204.5	19679.9	18830.8	18000.4	17494.6	17299.3	17673.4	17995.6	20444.5	16810.0
32.5°	22269.9	22062.9	21456.0	20519.8	19428.3	18656.7	18339.2	18572.0	18828.4	21359.5	17348.7
35°	24925.7	24678.8	23801.3	22509.8	21277.2	20216.3	19708.2	19877.6	20126.9	22723.9	18127.4
37.5°	26737.1	26626.5	26043.1	24829.3	23488.5	22267.6	21481.9	21580.7	21721.8	24429.4	19124.8
40°	26720.6	26765.3	26777.1	26788.8	25876.2	24707.0	23862.5	23759.0	23730.7	26301.9	20258.6
42.5°	25382.1	25565.6	26158.4	27360.5	27915.6	27379.3	26605.3	26306.6	26158.4	28508.4	21460.7
45°	23333.2	23432.0	24542.3	26890.0	28960.0	30025.7	29439.9	28499.0	28230.9	30536.2	22458.1
47.5°	22277.0	22385.2	23083.8	25643.2	28948.3	32164.0	32502.7	30710.2	30230.3	32300.5	23319.1
50°	19762.3	19988.2	20867.9	23474.4	27892.1	33147.3	35704.4	33344.9	32352.1	34017.7	24182.5
52.5°	15144.6	15492.7	16478.4	19908.2	25212.8	32660.4	38266.0	36539.4	35137.4	35796.1	24923.4
55°	9553.0	9811.7	10639.8	14060.2	20169.2	30126.8	39237.6	39995.0	38748.4	37480.4	25565.6
57.5°	5194.0	5309.3	5619.8	7762.9	13119.1	24525.9	37821.5	41961.6	41444.1	38910.6	26050.2
58°	4648.3	4725.9	4918.9	6727.7	11634.8	22994.5	37193.4	41968.7	41709.9	39120.0	26087.8
60°	3448.6	3408.6	3236.8	3839.0	6476.1	15885.6	33396.7	40289.1	41049.0	39376.3	25904.4
62.5°	3029.9	2933.4	2583.0	2543.0	3149.9	7318.2	25553.8	34511.7	36306.6	37913.2	24789.3
65°	2846.4	2742.8	2291.2	2145.3	2272.4	3095.8	15052.8	25883.2	28134.4	33476.7	21938.2
67.5°	2709.9	2575.9	2105.3	1905.5	1914.9	2046.5	6033.9	16301.9	18835.5	25417.4	17064.1
70°	2578.2	2432.4	1947.8	1717.2	1663.1	1618.4	2399.4	8160.4	10458.6	16054.9	10879.7
72.5°	2437.1	2293.6	1809.0	1569.0	1463.1	1315.0	1566.6	3338.0	4662.4	7595.8	4935.3
75°	2232.4	2103.0	1670.2	1437.3	1286.8	1089.1	1183.2	1743.1	2091.2	3025.2	2378.3
77.5°	1980.7	1874.9	1514.9	1329.1	1140.9	884.4	910.3	1209.1	1340.9	1731.3	1413.8
80°	1423.2	1460.8	1347.9	1195.0	1016.2	717.5	698.7	882.1	952.7	1112.7	919.7
82.5°	999.7	1020.9	1115.0	976.2	839.8	564.6	515.2	621.0	663.4	731.6	496.3
85°	689.3	665.7	764.6	679.9	606.9	376.3	352.8	421.0	446.9	454.0	256.5
87.5°	414.0	414.0	442.2	364.6	326.9	195.3	190.6	240.0	256.5	244.7	141.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7	13269.7
2.5°	13305.0	13138.0	12782.8	12498.2	12138.2	11764.2	11554.8	11331.4	11178.5	11067.9	11244.4
5°	13406.2	13065.1	12331.2	11634.8	10865.6	10065.8	9458.9	8894.4	8501.4	8256.8	8487.3
7.5°	13566.2	13041.6	11872.5	10682.2	9301.3	7969.8	6779.5	6033.9	5598.6	5384.6	5518.7
10°	13749.6	13004.0	11333.8	9390.7	7414.7	5737.4	4848.3	4547.1	4448.3	4408.3	4427.1
12.5°	13902.5	12924.0	10672.8	7828.7	5568.0	4530.6	4274.3	4267.2	4288.4	4293.1	4300.2
15°	14010.7	12806.3	9691.7	6200.8	4453.0	4128.4	4114.3	4156.7	4196.7	4213.1	4222.5
17.5°	14083.7	12564.0	8583.8	4902.4	3989.6	3933.1	3966.1	4020.2	4062.5	4074.3	4083.7
20°	14076.6	12208.8	7264.2	4088.4	3738.0	3738.0	3794.3	3836.7	3839.0	3824.9	3832.0
22.5°	14003.7	11721.9	5984.5	3655.6	3514.4	3554.4	3610.9	3570.9	3406.2	3298.0	3305.1
25°	13881.3	11140.9	4888.3	3380.3	3307.4	3378.0	3361.5	3060.5	2825.2	2719.3	2719.3
27.5°	13773.1	10453.9	4046.1	3140.5	3100.5	3187.5	2895.8	2622.8	2524.1	2474.7	2458.3
30°	13695.6	9712.9	3483.9	2909.9	2905.2	2841.7	2512.4	2437.1	2420.6	2380.6	2366.5
32.5°	13714.3	8962.6	3124.0	2707.5	2724.0	2432.4	2328.8	2345.3	2331.2	2288.9	2270.0
35°	13869.6	8249.8	2888.7	2524.1	2474.7	2197.1	2220.6	2251.2	2246.5	2187.7	2168.9
37.5°	14147.2	7574.6	2733.4	2371.2	2159.4	2079.5	2117.1	2164.2	2152.4	2112.4	2098.3
40°	14438.8	6939.5	2606.5	2251.2	1973.7	1999.6	2032.5	2058.3	2070.0	2081.8	2072.4
42.5°	14723.5	6276.1	2451.2	2128.9	1896.0	1924.3	1938.4	1964.3	2027.8	2072.4	2070.0
45°	14892.8	5652.7	2291.2	1954.9	1834.9	1851.3	1841.9	1893.7	1971.3	2044.2	2046.5
47.5°	15081.1	5168.2	2164.2	1794.9	1776.0	1787.8	1759.6	1811.3	1881.9	1971.3	1980.7
50°	15309.3	4878.9	2063.0	1667.8	1696.1	1696.1	1689.0	1736.0	1834.9	1938.4	1957.2
52.5°	15568.0	4822.4	1978.4	1576.1	1616.1	1613.7	1620.8	1691.3	1799.6	1900.7	1917.2
55°	15883.3	4975.2	1886.6	1507.8	1538.4	1547.8	1571.4	1651.3	1743.1	1858.4	1865.5
57.5°	16250.2	5285.8	1813.7	1453.8	1467.8	1498.4	1536.1	1609.0	1707.8	1834.9	1841.9
58°	16311.4	5351.7	1801.9	1449.1	1453.8	1489.0	1531.4	1601.9	1700.8	1839.6	1846.6
60°	16313.7	5570.4	1776.0	1427.9	1399.7	1458.4	1505.5	1576.1	1689.0	1856.0	1872.5
62.5°	15735.0	5568.0	1757.2	1397.4	1343.2	1416.2	1470.2	1552.5	1677.2	1896.0	1929.0
65°	13855.5	5059.9	1667.8	1350.3	1298.5	1378.5	1439.7	1536.1	1710.2	2070.0	2091.2
67.5°	10837.3	4147.2	1500.8	1284.4	1239.7	1340.9	1420.9	1533.7	1745.5	2110.0	2124.2
70°	7165.4	3102.8	1317.4	1209.1	1178.5	1296.2	1430.3	1613.7	1705.5	2025.4	1987.8
72.5°	3719.1	2178.3	1169.1	1115.0	1108.0	1256.2	1566.6	1604.3	1665.5	1905.5	1858.4
75°	1952.5	1512.5	1039.7	1011.5	1023.3	1246.8	1849.0	1561.9	1613.7	1823.1	1912.5
77.5°	1195.0	1220.9	929.1	917.4	940.9	1218.5	1846.6	1507.8	1538.4	1677.2	1776.0
80°	799.8	990.3	844.5	846.9	863.4	1115.0	1658.4	1423.2	1446.8	1585.5	1686.6
82.5°	505.7	585.7	766.9	806.9	785.7	919.7	1409.1	1296.2	1329.1	1813.7	1917.2
85°	256.5	366.9	665.7	776.3	708.1	644.6	1143.2	1136.2	1152.7	1307.9	1366.8
87.5°	117.6	202.3	519.9	677.5	534.0	402.2	830.4	842.2	908.0	929.1	929.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)