

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: STREETWORKS

Report Number: P192717

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192717
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: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-AFL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52800.6 lumens
Efficiency: N/A
Efficacy: 105.4 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 - G4

Input Watts (W): 501
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: 28.75 FT

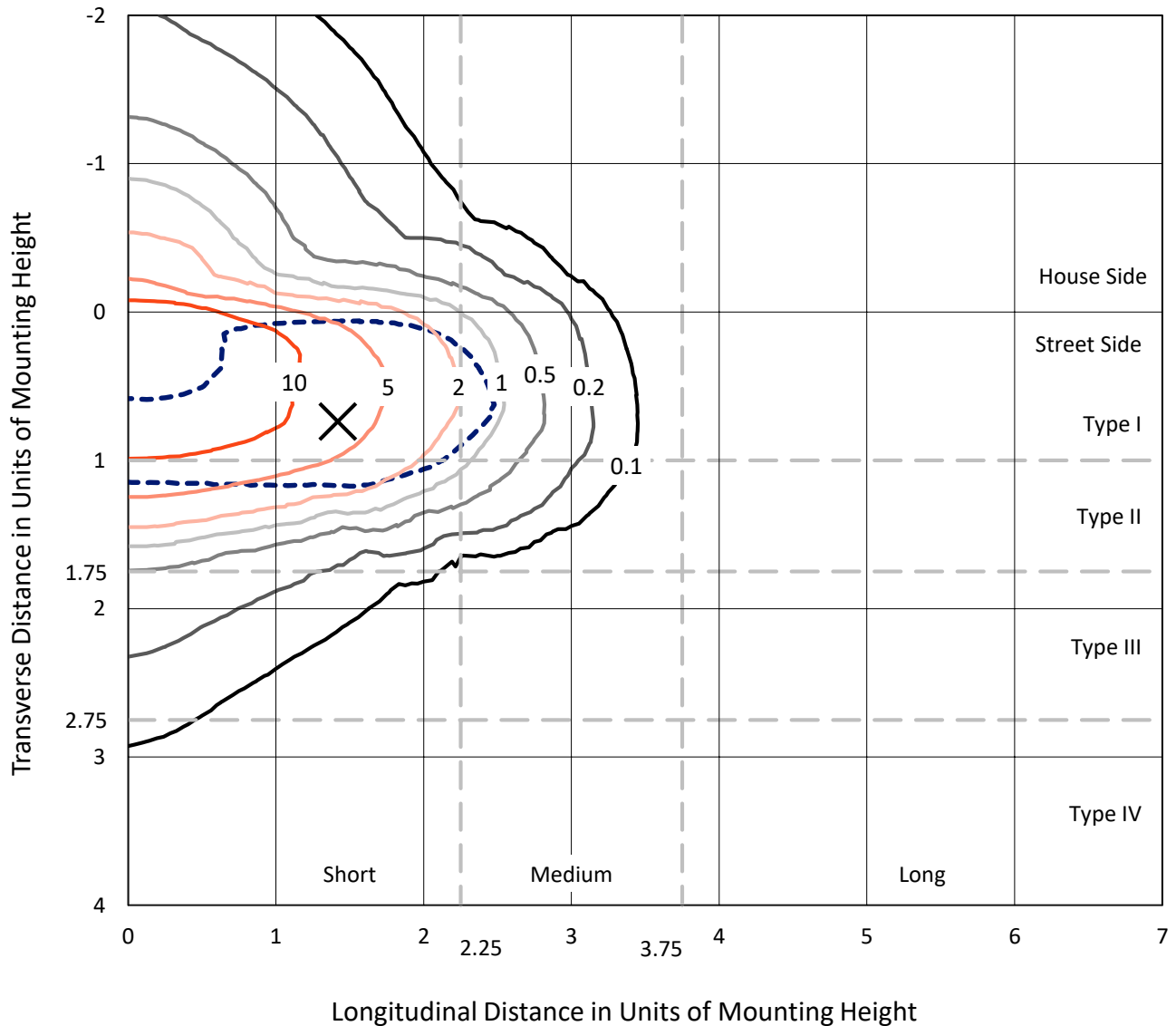


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Iso-Footcandle Lines of Horizontal Illumination

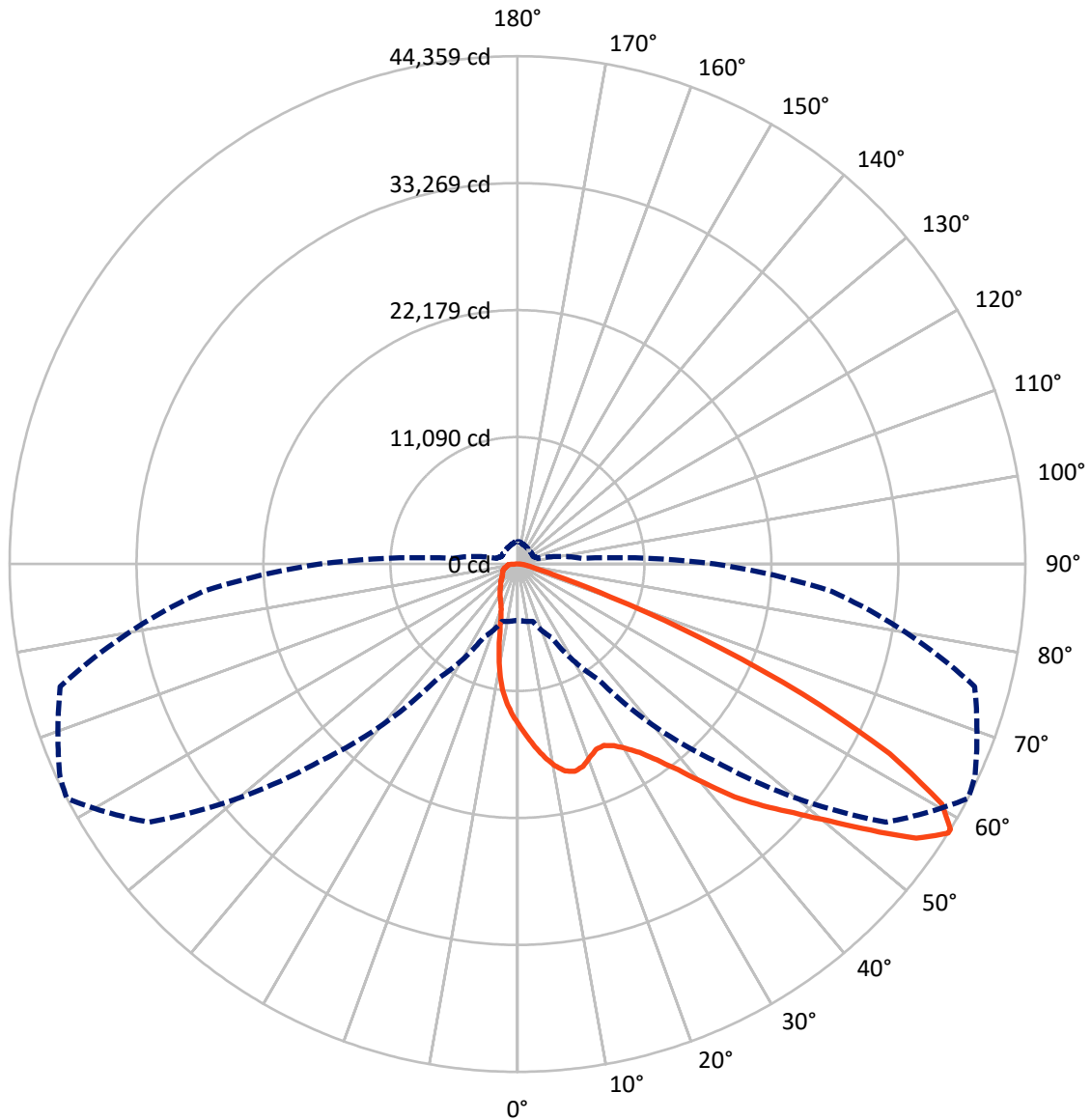
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19 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	8052.3	0.0	8052.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	44748.3	0.0	44748.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	52800.6	0.0	52800.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1254.4	2.4
10°-20°	3206.4	6.1
20°-30°	5183.2	9.8
30°-40°	8228.3	15.6
40°-50°	12039.7	22.8
50°-60°	12592.5	23.8
60°-70°	7439.6	14.1
70°-80°	2095.8	4.0
80°-90°	760.9	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°	52800.6	100.0
0°-180°	52800.6	100.0



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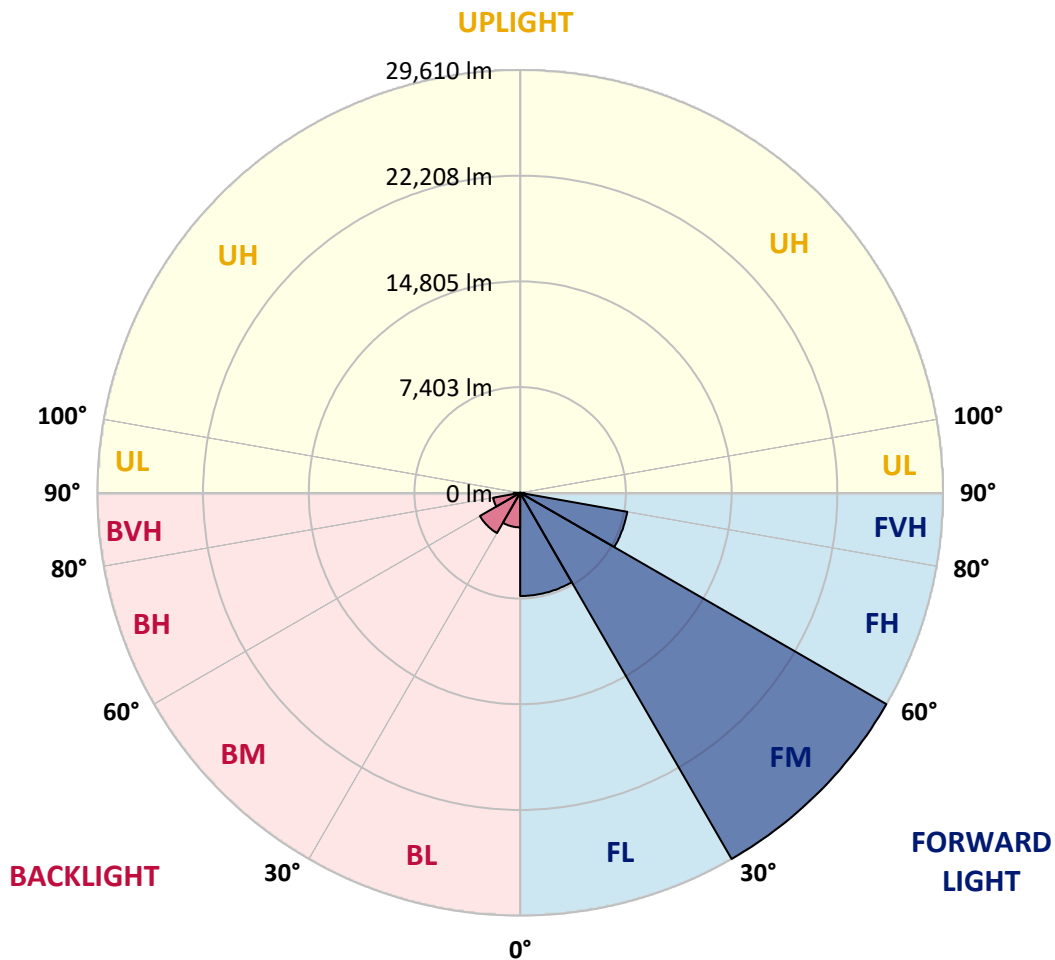
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7223.8	13.7			
FM (30°-60°)	29610.3	56.1			
FH (60°-80°)	7614.1	14.4			G4/12000
FVH (80°-90°)	300.2	0.6			G3/500
BL (0°-30°)	2420.1	4.6	B3/2500		
BM (30°-60°)	3250.1	6.2	B3/5000		
BH (60°-80°)	1921.4	3.6	B3/2500		G3/2500
BVH (80°-90°)	460.7	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4
2.5°	16026.9	15897.7	15815.6	15743.5	15648.9	15447.6	15176.5	15005.0	14918.0	14622.1	14271.6
5°	17598.3	17483.8	17399.3	17302.4	17133.4	16817.5	16379.9	16031.8	15860.3	15268.6	14567.4
7.5°	17230.3	17277.5	17424.2	17680.4	17899.1	17856.9	17466.5	17023.9	16797.6	15974.7	14910.5
10°	15012.4	15094.5	15348.2	15947.4	16917.0	17911.5	18214.9	17909.0	17680.4	16673.4	15263.6
12.5°	14567.4	14565.0	14584.8	14744.0	15320.8	16720.6	18239.7	18548.1	18411.3	17339.7	15624.1
15°	14748.9	14754.0	14739.0	14806.2	14985.1	15539.6	17479.0	18794.2	18891.2	18011.0	15997.0
17.5°	15226.3	15214.0	15156.7	15156.7	15221.4	15437.7	16583.8	18565.5	19013.0	18605.2	16325.3
20°	16026.9	15969.8	15818.0	15678.8	15609.3	15726.0	16215.8	18038.3	18801.7	19124.8	16596.3
22.5°	16996.6	16951.8	16705.6	16407.4	16166.1	16163.7	16404.8	17578.4	18436.2	19614.7	16825.1
25°	18249.7	18177.6	17812.1	17334.7	16912.0	16750.4	16817.5	17556.0	18237.2	20146.8	17028.9
27.5°	19721.7	19589.8	19157.2	18468.5	17847.0	17521.3	17424.2	17961.2	18418.8	20805.7	17312.3
30°	21506.8	21355.2	20800.7	19903.1	19025.5	18490.8	18284.5	18679.8	19020.5	21608.8	17767.3
32.5°	23538.2	23319.3	22677.9	21688.3	20534.6	19719.1	19383.4	19629.6	19900.6	22575.9	18336.8
35°	26345.2	26084.1	25156.7	23791.8	22489.0	21367.5	20830.5	21009.6	21273.1	24018.0	19159.7
37.5°	28259.7	28142.8	27526.2	26243.3	24826.0	23535.6	22705.1	22809.6	22958.7	25820.5	20213.9
40°	28242.3	28289.5	28302.0	28314.4	27349.7	26113.9	25221.4	25111.9	25082.1	27799.7	21412.3
42.5°	26827.5	27021.5	27648.0	28918.5	29505.4	28938.4	28120.5	27804.7	27648.0	30131.8	22682.9
45°	24662.0	24766.4	25939.9	28421.3	30609.3	31735.6	31116.5	30121.9	29838.4	32275.0	23737.0
47.5°	23545.6	23660.0	24398.3	27103.5	30596.9	33995.7	34353.8	32459.1	31951.9	34139.8	24647.0
50°	20887.7	21126.4	22056.2	24811.1	29480.5	35035.0	37737.6	35243.8	34194.6	35954.9	25559.6
52.5°	16007.0	16375.0	17416.8	21041.8	26648.6	34520.3	40445.1	38620.2	37138.5	37834.6	26342.7
55°	10096.9	10370.5	11245.7	14860.8	21317.8	31842.5	41472.1	42272.6	40954.8	39614.7	27021.5
57.5°	5489.8	5611.7	5939.9	8205.0	13866.3	25922.6	39975.2	44351.3	43804.2	41126.5	27533.7
58°	4913.0	4995.0	5198.9	7110.9	12297.4	24303.9	39311.5	44358.7	44085.2	41347.7	27573.4
60°	3645.0	3602.8	3421.2	4057.7	6844.9	16790.2	35298.5	42583.5	43386.6	41618.7	27379.5
62.5°	3202.4	3100.4	2730.0	2687.8	3329.2	7735.0	27009.0	36477.0	38374.0	40072.3	26201.0
65°	3008.5	2899.0	2421.7	2267.5	2401.8	3272.0	15910.0	27357.1	29736.5	35383.1	23187.5
67.5°	2864.2	2722.5	2225.3	2013.9	2023.9	2163.2	6377.5	17230.3	19908.1	26864.8	18035.9
70°	2725.0	2570.9	2058.7	1815.1	1757.9	1710.6	2536.0	8625.2	11054.2	16969.3	11499.3
72.5°	2575.9	2424.1	1912.0	1658.3	1546.4	1389.9	1656.0	3528.1	4927.9	8028.4	5216.4
75°	2359.6	2222.8	1765.3	1519.1	1360.1	1151.1	1250.6	1842.3	2210.4	3197.5	2513.7
77.5°	2093.5	1981.6	1601.2	1404.7	1205.9	934.8	962.2	1278.0	1417.2	1830.0	1494.3
80°	1504.3	1544.1	1424.6	1263.0	1074.1	758.4	738.5	932.4	1007.0	1176.0	972.2
82.5°	1056.6	1079.1	1178.5	1031.9	887.6	596.8	544.5	656.4	701.1	773.2	524.7
85°	728.5	703.6	808.1	718.6	641.5	397.8	372.9	445.0	472.4	479.8	271.0
87.5°	437.6	437.6	467.4	385.3	345.6	206.4	201.4	253.6	271.0	258.6	149.1
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°	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4	14025.4
2.5°	14062.8	13886.2	13510.8	13209.9	12829.4	12434.1	12212.9	11976.7	11815.1	11698.2	11884.6
5°	14169.7	13809.1	13033.3	12297.4	11484.4	10639.0	9997.6	9400.7	8985.6	8727.1	8970.7
7.5°	14338.6	13784.2	12548.5	11290.5	9830.9	8423.7	7165.7	6377.5	5917.5	5691.2	5833.0
10°	14532.6	13744.5	11979.1	9925.4	7836.9	6064.2	5124.4	4806.1	4701.7	4659.4	4679.2
12.5°	14694.3	13659.9	11280.5	8274.5	5885.1	4788.8	4517.7	4510.2	4532.6	4537.5	4544.9
15°	14808.6	13535.6	10243.7	6554.0	4706.7	4363.5	4348.6	4393.4	4435.6	4453.0	4463.0
17.5°	14885.7	13279.5	9072.7	5181.5	4216.9	4157.2	4191.9	4249.1	4293.9	4306.4	4316.3
20°	14878.3	12904.1	7677.7	4321.2	3950.9	3950.9	4010.5	4055.1	4057.7	4042.8	4050.2
22.5°	14801.2	12389.5	6325.2	3863.7	3714.6	3756.9	3816.5	3774.3	3600.2	3485.8	3493.3
25°	14671.9	11775.3	5166.7	3572.9	3495.7	3570.4	3553.0	3234.7	2986.0	2874.2	2874.2
27.5°	14557.4	11049.3	4276.5	3319.3	3277.0	3369.0	3060.7	2772.2	2667.8	2615.6	2598.1
30°	14475.4	10266.1	3682.2	3075.6	3070.6	3003.5	2655.4	2575.9	2558.5	2516.1	2501.3
32.5°	14495.3	9472.9	3301.9	2861.7	2879.2	2570.9	2461.5	2478.9	2463.9	2419.2	2399.4
35°	14659.5	8719.6	3053.2	2667.8	2615.6	2322.2	2347.1	2379.4	2374.4	2312.3	2292.4
37.5°	14952.7	8006.0	2889.2	2506.2	2282.4	2198.0	2237.7	2287.5	2275.0	2232.7	2217.9
40°	15261.2	7334.7	2754.9	2379.4	2086.1	2113.4	2148.1	2175.6	2188.0	2200.4	2190.4
42.5°	15562.1	6633.5	2590.7	2250.0	2004.1	2033.9	2048.7	2076.0	2143.2	2190.4	2188.0
45°	15741.0	5974.7	2421.7	2066.1	1939.4	1956.8	1946.8	2001.5	2083.6	2160.6	2163.2
47.5°	15940.0	5462.5	2287.5	1897.1	1877.2	1889.6	1859.8	1914.4	1989.1	2083.6	2093.5
50°	16181.1	5156.7	2180.5	1762.8	1792.6	1792.6	1785.2	1834.9	1939.4	2048.7	2068.6
52.5°	16454.6	5097.0	2091.0	1665.8	1708.2	1705.6	1713.0	1787.7	1902.1	2009.0	2026.3
55°	16787.6	5258.6	1994.1	1593.8	1626.1	1636.0	1660.8	1745.4	1842.3	1964.2	1971.7
57.5°	17175.5	5586.8	1917.0	1536.5	1551.5	1583.8	1623.6	1700.6	1805.1	1939.4	1946.8
58°	17240.2	5656.5	1904.5	1531.6	1536.5	1573.9	1618.5	1693.2	1797.7	1944.3	1951.8
60°	17242.8	5887.7	1877.2	1509.2	1479.4	1541.5	1591.3	1665.8	1785.2	1961.7	1979.1
62.5°	16631.1	5885.1	1857.3	1476.8	1419.8	1496.8	1554.0	1641.0	1772.7	2004.1	2038.8
65°	14644.4	5348.1	1762.8	1427.2	1372.4	1457.0	1521.7	1623.6	1807.5	2188.0	2210.4
67.5°	11454.5	4383.4	1586.3	1357.5	1310.3	1417.2	1501.8	1621.1	1844.9	2230.2	2245.2
70°	7573.5	3279.5	1392.4	1278.0	1245.7	1370.0	1511.7	1705.6	1802.6	2140.7	2100.9
72.5°	3930.9	2302.3	1235.7	1178.5	1171.0	1327.7	1656.0	1695.7	1760.2	2013.9	1964.2
75°	2063.7	1598.7	1098.9	1069.1	1081.5	1317.7	1954.2	1650.9	1705.6	1926.9	2021.4
77.5°	1263.0	1290.5	982.1	969.6	994.6	1287.9	1951.8	1593.8	1626.1	1772.7	1877.2
80°	845.3	1046.7	892.6	895.1	912.6	1178.5	1752.8	1504.3	1529.1	1675.8	1782.7
82.5°	534.6	619.1	810.6	852.8	830.5	972.2	1489.3	1370.0	1404.7	1917.0	2026.3
85°	271.0	387.9	703.6	820.5	748.4	681.2	1208.4	1200.9	1218.4	1382.3	1444.5
87.5°	124.3	213.8	549.5	716.0	564.5	425.1	877.7	890.1	959.8	982.1	982.1
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)