

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: P191511

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T4FT-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12321.4 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

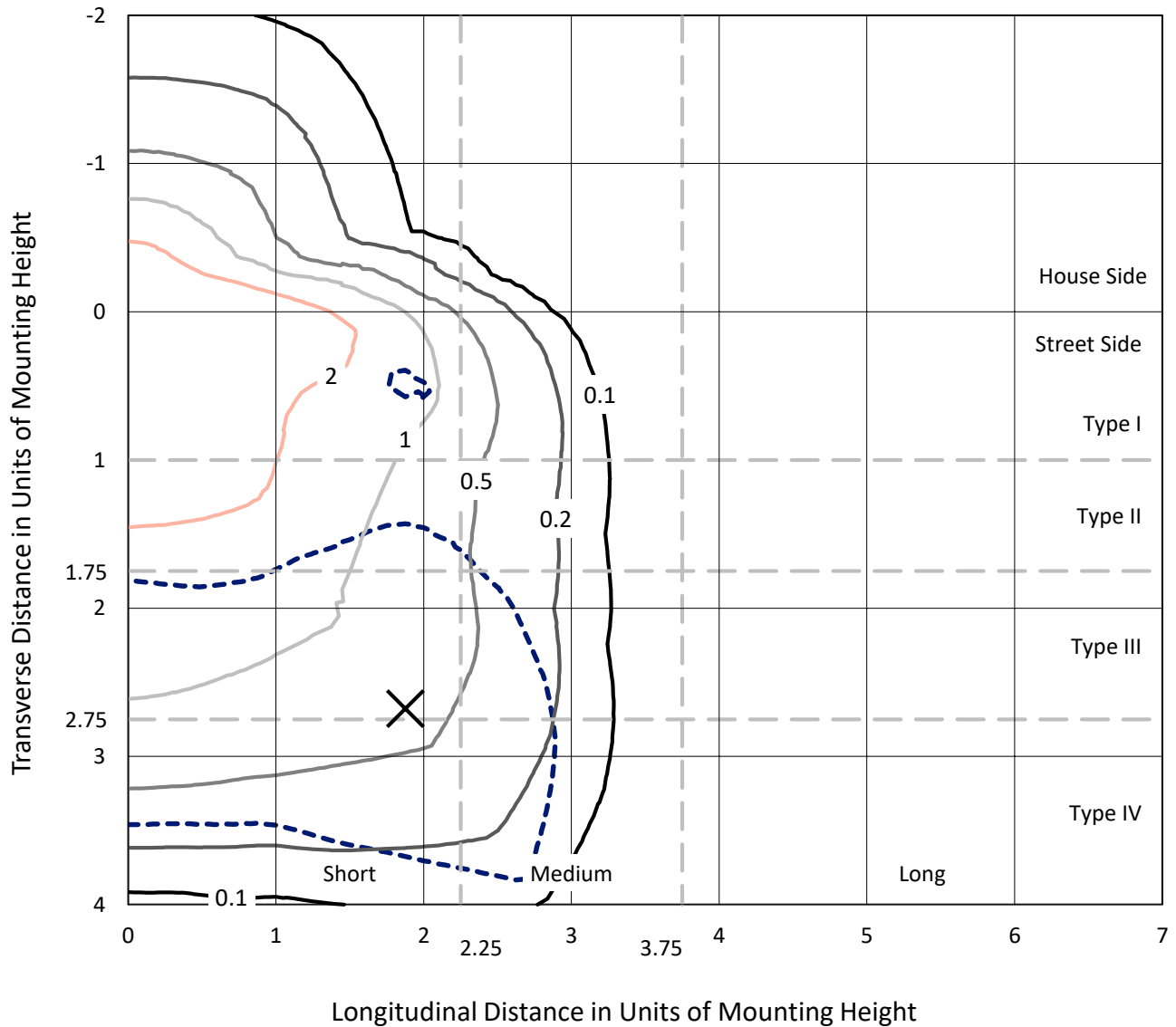
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

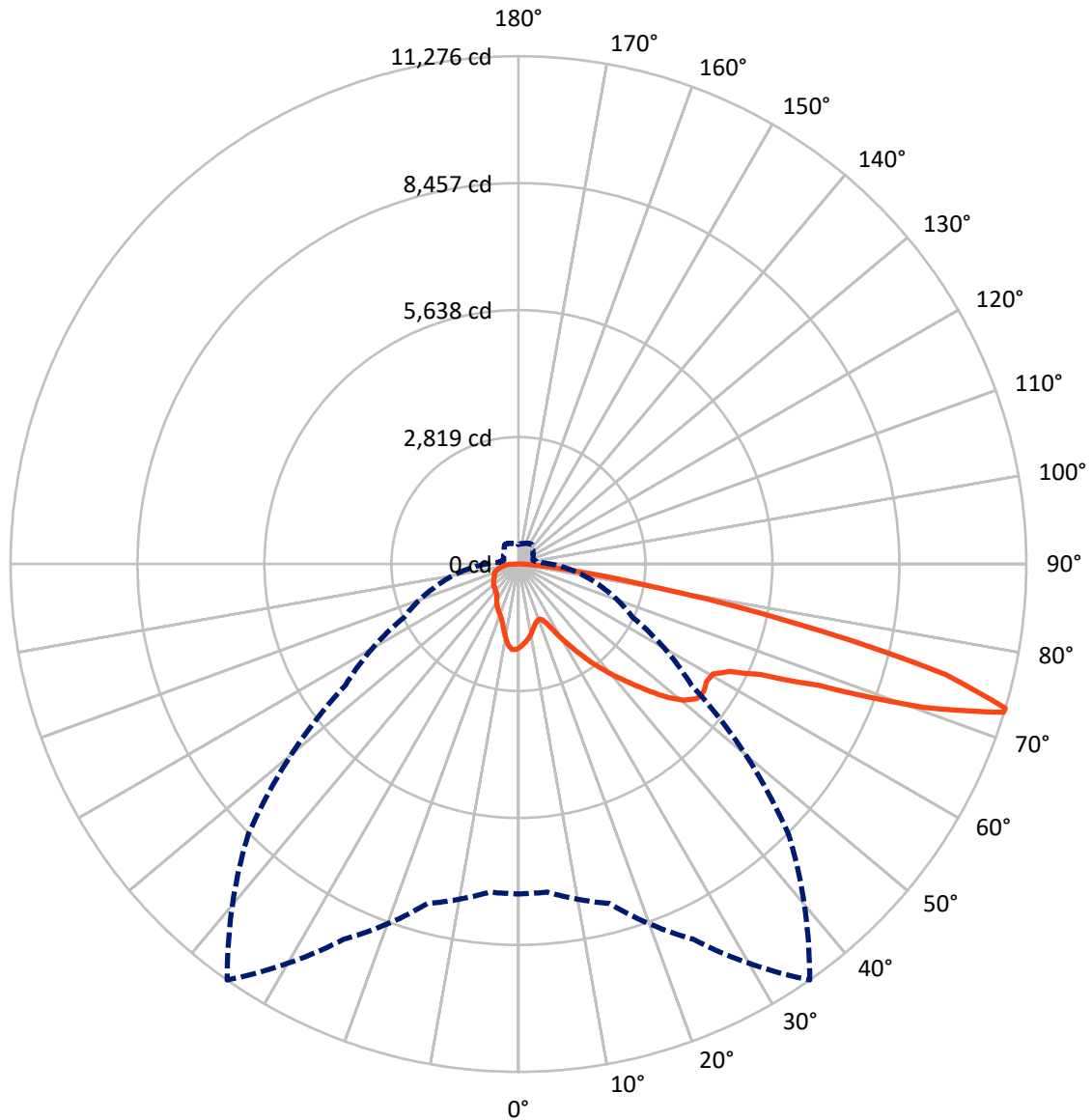
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2350.0	0.0	2350.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9971.4	0.0	9971.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	12321.4	0.0	12321.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	1.4
10°-20°	420.2	3.4
20°-30°	679.3	5.5
30°-40°	1139.1	9.2
40°-50°	1755.8	14.3
50°-60°	2355.7	19.1
60°-70°	3138.2	25.5
70°-80°	2393.5	19.4
80°-90°	271.3	2.2
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°	12321.4	100.0
0°-180°	12321.4	100.0



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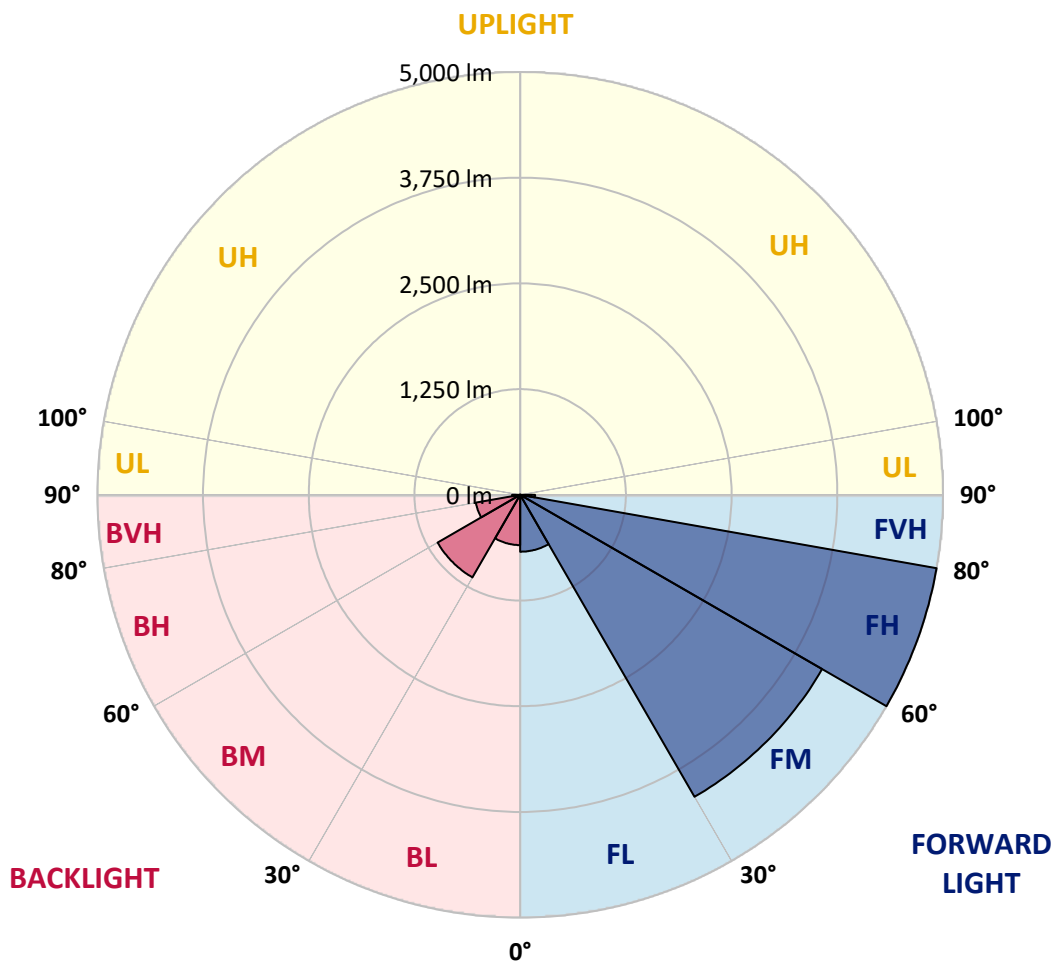
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	673.2	5.5			
FM	(30°-60°)	4122.8	33.5			
FH	(60°-80°)	5000.0	40.6			G3/7500
FVH	(80°-90°)	175.4	1.4			G2/225
BL	(0°-30°)	594.7	4.8	B2/1000		
BM	(30°-60°)	1127.8	9.2	B2/2500		
BH	(60°-80°)	531.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	95.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7
2.5°	1786.3	1789.9	1785.8	1791.1	1799.9	1809.4	1815.9	1825.4	1836.0	1850.8	1854.4
5°	1702.3	1707.6	1707.6	1717.1	1734.2	1749.7	1763.9	1779.2	1801.7	1827.2	1837.2
7.5°	1610.0	1613.0	1618.3	1632.5	1657.3	1679.2	1699.3	1724.2	1755.0	1788.7	1806.4
10°	1498.7	1502.9	1511.2	1531.3	1565.0	1595.2	1624.2	1658.5	1697.6	1739.5	1762.0
12.5°	1420.1	1418.8	1422.4	1437.2	1466.8	1503.5	1545.5	1589.3	1637.2	1686.3	1713.5
15°	1393.5	1386.9	1373.3	1369.7	1385.8	1422.4	1470.9	1524.8	1582.2	1641.3	1675.1
17.5°	1410.0	1398.8	1361.4	1334.2	1331.9	1359.7	1411.2	1471.5	1537.8	1610.0	1652.0
20°	1514.2	1487.5	1395.8	1332.5	1310.6	1324.2	1369.2	1433.1	1511.2	1607.1	1660.9
22.5°	1763.3	1724.2	1529.5	1411.8	1337.8	1321.2	1355.0	1423.0	1514.2	1643.7	1712.3
25°	2126.0	2070.4	1759.1	1609.4	1456.8	1368.6	1376.3	1446.1	1556.1	1728.9	1811.7
27.5°	2412.3	2376.2	2059.1	1888.1	1673.3	1496.4	1445.5	1504.0	1641.9	1868.5	1953.2
30°	2582.7	2560.9	2379.8	2204.0	1949.6	1699.9	1578.0	1613.0	1776.3	2062.1	2131.8
32.5°	2780.4	2767.4	2678.6	2517.1	2247.8	1967.3	1788.1	1775.6	1956.1	2294.6	2326.5
35°	2985.1	2981.0	2928.9	2812.9	2567.9	2320.1	2066.8	1982.8	2152.0	2536.0	2515.8
37.5°	3175.6	3168.5	3138.3	3070.9	2902.8	2698.7	2350.8	2195.2	2363.2	2766.8	2677.4
40°	3526.5	3470.9	3367.3	3316.4	3241.3	3017.6	2576.2	2393.4	2582.1	2986.8	2817.0
42.5°	3954.3	3863.8	3670.9	3601.0	3590.4	3269.1	2730.1	2585.7	2802.9	3205.2	2954.3
45°	4291.0	4205.8	4039.5	3951.4	3990.3	3496.9	2884.5	2791.0	3030.1	3434.1	3095.8
47.5°	4650.1	4516.4	4296.3	4322.9	4408.1	3712.3	3041.8	3011.7	3279.2	3690.4	3271.5
50°	4663.1	4560.7	4464.4	4623.5	4756.0	3910.5	3239.0	3243.1	3583.9	4012.8	3505.1
52.5°	4392.8	4370.9	4524.1	4774.3	4965.5	4067.3	3463.2	3482.1	3973.8	4383.2	3762.0
55°	4298.0	4273.2	4450.1	4721.7	4993.8	4196.9	3706.4	3740.7	4445.3	4773.8	4012.2
57.5°	4528.8	4473.8	4485.6	4696.9	4924.7	4338.8	3971.4	4040.7	4957.8	5115.2	4173.2
60°	5173.8	5056.0	4832.3	4827.0	4961.9	4551.9	4278.0	4362.6	5490.3	5278.5	4110.5
62.5°	6078.5	5960.7	5541.8	5269.0	5248.9	4903.3	4654.2	4676.7	5798.0	5057.2	3727.6
65°	7057.7	6952.4	6484.4	6099.1	5913.4	5485.6	5091.5	4817.0	5697.4	4448.3	3057.9
67.5°	8246.4	8133.4	7731.1	7375.5	7196.8	6425.2	5398.6	4682.7	5059.0	3446.0	2198.1
70°	9077.8	8962.4	8803.8	9092.0	9529.2	7780.8	5438.2	4136.5	3778.6	2290.5	1323.0
72.5°	7993.1	7939.3	8228.6	9442.2	11263.4	8603.2	4915.8	3011.7	2194.5	1215.9	765.7
73°	7323.4	7311.5	7805.0	9196.6	11275.9	8476.6	4686.8	2799.3	1882.1	1075.7	700.0
75°	3307.0	3402.2	4483.8	7024.6	9796.7	6984.9	3298.7	1605.8	1063.3	743.2	528.4
77.5°	794.6	827.8	1402.9	3335.9	6186.7	4162.6	1494.6	794.0	679.9	524.9	385.8
80°	338.5	349.6	540.2	1232.5	2912.9	1676.3	688.8	531.9	470.4	366.2	270.4
82.5°	188.1	200.0	306.5	559.1	1175.7	571.6	420.1	370.4	309.4	220.7	175.7
85°	106.5	113.0	179.3	312.4	498.2	229.6	251.4	246.1	174.5	113.6	86.3
87.5°	50.3	54.4	86.3	145.0	195.3	89.9	127.8	140.9	109.5	69.3	45.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7
2.5°	1858.5	1869.1	1881.6	1888.1	1894.0	1901.2	1908.2	1908.2	1909.4	1910.0
5°	1845.5	1867.4	1886.9	1895.2	1897.0	1897.0	1895.2	1885.7	1877.4	1881.0
7.5°	1818.3	1850.2	1866.8	1863.8	1841.3	1815.3	1793.4	1766.8	1753.1	1750.8
10°	1779.2	1815.9	1818.9	1789.2	1733.7	1678.0	1631.9	1586.9	1565.6	1560.3
12.5°	1736.0	1769.7	1750.8	1689.9	1600.5	1519.5	1460.9	1415.4	1395.2	1389.9
15°	1701.1	1724.2	1676.3	1580.5	1468.0	1382.2	1333.7	1300.0	1285.7	1281.7
17.5°	1682.8	1687.5	1599.9	1470.4	1350.8	1279.2	1249.0	1233.1	1227.7	1224.8
20°	1691.7	1658.5	1527.2	1368.0	1255.0	1204.7	1197.6	1193.5	1192.2	1190.5
22.5°	1736.0	1649.6	1460.3	1270.9	1171.0	1149.1	1155.0	1154.4	1153.2	1152.0
25°	1815.3	1657.3	1395.2	1178.6	1100.6	1095.8	1106.4	1106.4	1101.7	1101.7
27.5°	1920.1	1673.3	1322.5	1091.1	1036.7	1037.3	1045.6	1043.1	1037.8	1034.3
30°	2047.8	1683.4	1237.3	1012.4	976.9	974.6	976.9	966.8	950.8	949.7
32.5°	2178.6	1670.9	1138.4	942.5	913.6	908.3	906.4	892.3	873.9	868.6
35°	2296.9	1625.4	1037.8	886.9	853.2	841.4	849.7	845.0	828.4	824.2
37.5°	2383.4	1540.8	947.3	837.8	810.1	807.1	812.4	814.2	794.6	790.5
40°	2441.3	1426.0	869.8	796.4	801.8	790.5	772.7	760.4	754.4	752.6
42.5°	2488.0	1306.4	804.7	776.9	803.5	771.0	732.5	712.4	723.0	727.8
45°	2541.9	1189.9	750.2	752.6	794.6	748.5	704.7	685.2	689.4	690.5
47.5°	2615.9	1047.9	691.7	713.6	765.1	733.1	687.5	659.7	640.2	631.4
50°	2718.2	879.8	630.8	669.8	736.1	721.9	660.9	631.4	595.3	587.0
52.5°	2789.3	723.0	580.4	633.1	710.0	699.4	639.7	601.2	563.3	556.2
55°	2750.8	600.6	536.6	592.3	675.8	671.6	621.9	570.4	540.8	534.9
57.5°	2558.5	523.0	503.0	553.8	633.7	647.9	598.2	544.3	523.0	518.9
60°	2191.7	474.5	481.6	527.7	599.3	624.2	574.5	530.2	516.0	513.0
62.5°	1700.6	442.0	465.6	508.8	572.8	607.6	561.5	528.4	523.0	519.6
65°	1218.3	415.9	448.5	489.9	548.5	592.3	556.8	526.0	527.2	524.3
67.5°	827.8	392.9	427.8	468.6	524.9	578.7	550.2	517.7	532.5	529.0
70°	579.3	370.4	403.6	441.4	495.2	559.8	538.5	505.3	504.1	489.9
72.5°	452.0	340.8	370.4	403.6	457.4	533.2	514.7	477.5	458.0	443.1
73°	431.4	333.7	362.1	395.3	449.1	526.6	508.3	469.8	448.0	434.3
75°	356.8	302.9	329.0	358.5	413.6	495.8	476.3	434.9	407.1	398.8
77.5°	280.5	259.1	284.0	310.7	364.5	450.9	429.0	389.3	374.0	366.8
80°	207.7	214.8	236.7	260.3	316.0	402.9	383.4	343.8	412.5	395.3
82.5°	146.2	162.8	182.8	204.2	265.0	356.2	332.6	291.7	301.8	250.8
85°	86.3	106.5	125.4	143.8	191.1	295.2	274.6	232.5	190.6	181.7
87.5°	50.3	59.1	64.4	83.5	131.3	222.5	193.4	172.2	98.8	66.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)