

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: P193122

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24999.6 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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



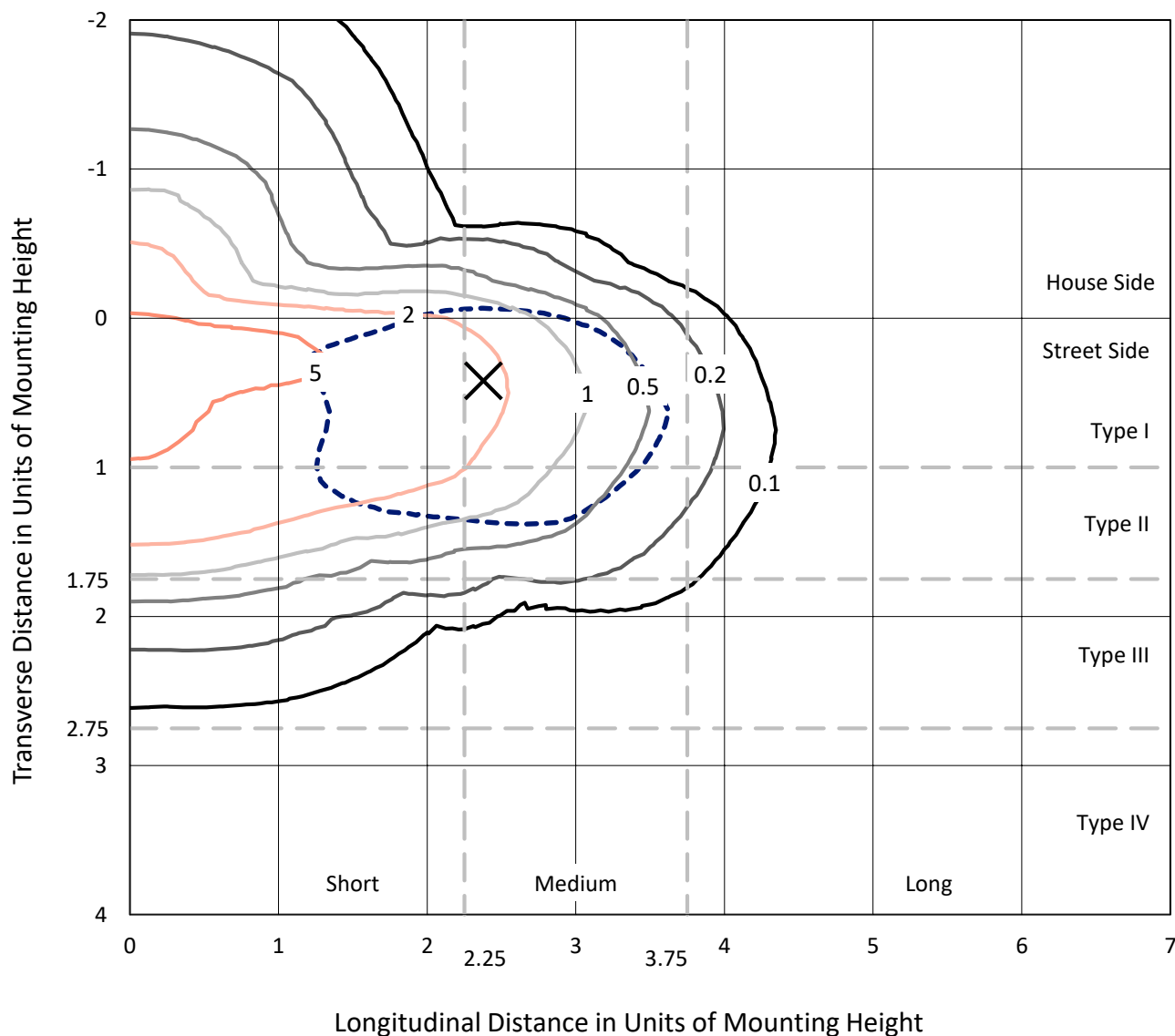
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

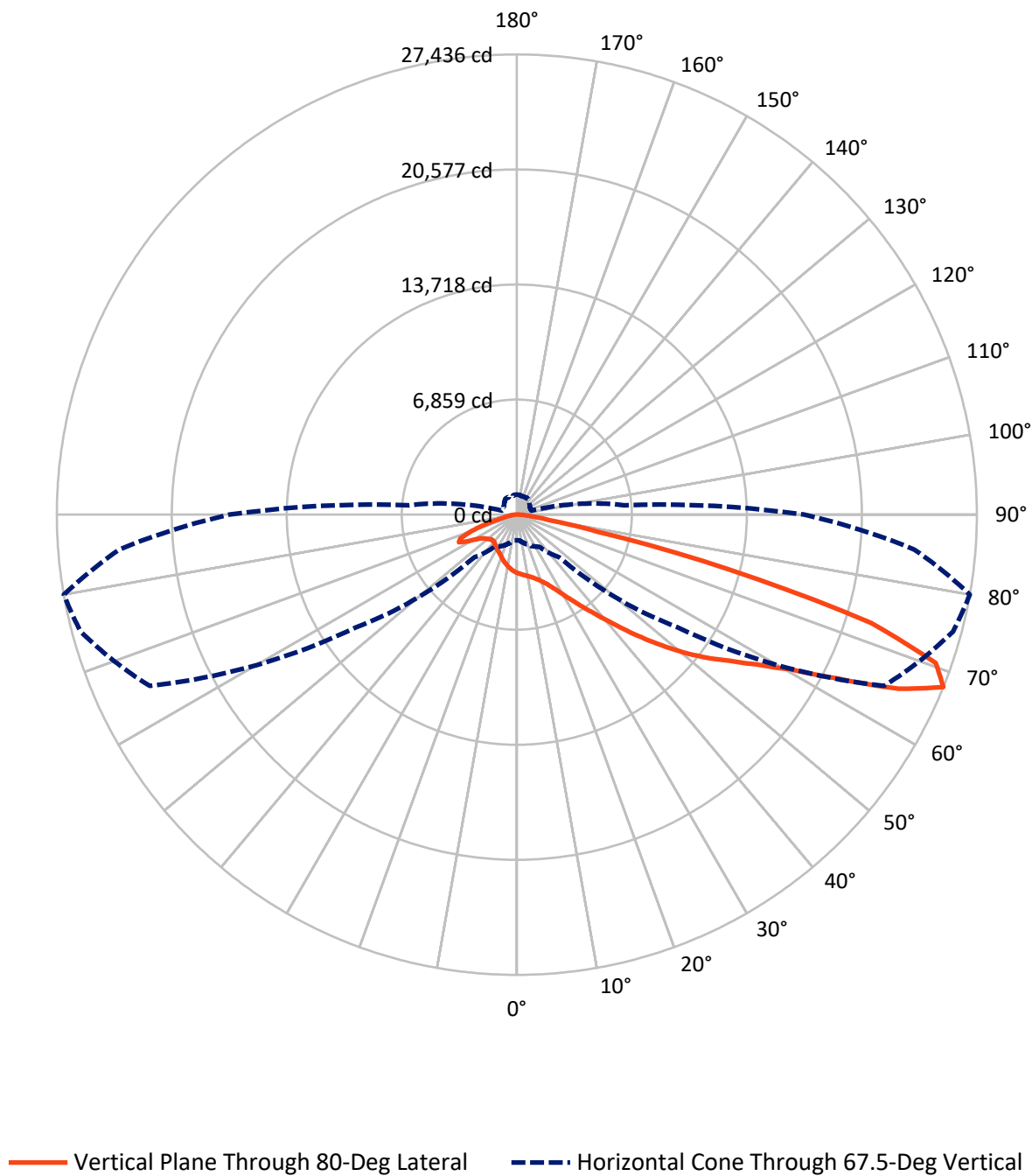


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4604.0	0.0	4604.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	20395.6	0.0	20395.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	24999.6	0.0	24999.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	1.3
10°-20°	922.9	3.7
20°-30°	1527.7	6.1
30°-40°	2498.8	10.0
40°-50°	4034.7	16.1
50°-60°	5824.9	23.3
60°-70°	6428.1	25.7
70°-80°	2962.9	11.9
80°-90°	479.2	1.9
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°	24999.6	100.0
0°-180°	24999.6	100.0

Coefficient of Utilization



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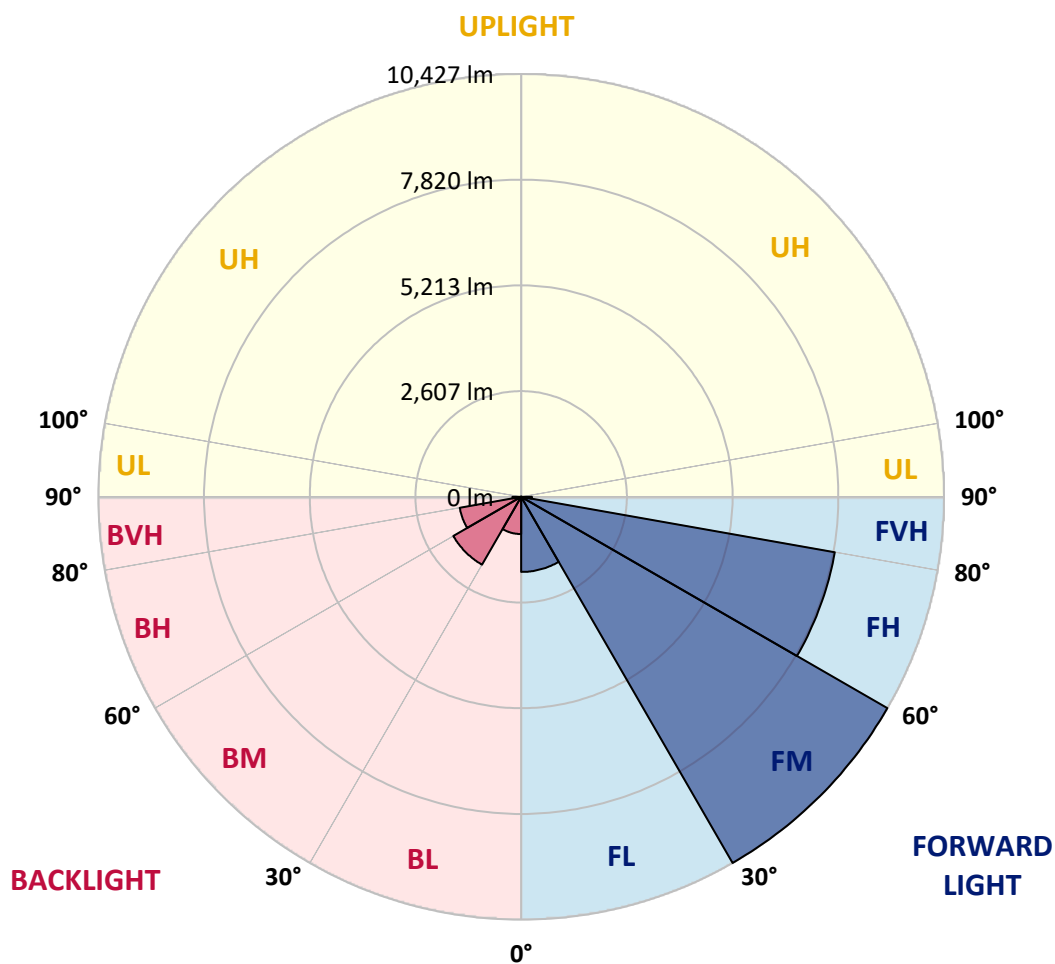
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1852.4	7.4			
FM	(30°-60°)	10426.7	41.7			
FH	(60°-80°)	7853.0	31.4			G4/12000
FVH	(80°-90°)	263.5	1.1			G3/500
BL	(0°-30°)	918.6	3.7	B2/1000		
BM	(30°-60°)	1931.7	7.7	B2/2500		
BH	(60°-80°)	1538.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	215.8	0.9			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2
2.5°	3799.3	3777.2	3780.8	3774.7	3756.3	3724.2	3689.8	3627.0	3561.8	3527.3	3500.2
5°	4116.9	4110.7	4102.1	4082.4	4035.6	3969.2	3886.7	3775.9	3656.6	3593.7	3533.5
7.5°	4354.4	4350.7	4339.7	4327.3	4281.8	4201.8	4077.4	3919.9	3746.4	3660.3	3566.7
10°	4374.0	4380.2	4388.8	4422.0	4428.3	4385.1	4258.4	4067.6	3839.9	3729.1	3609.8
12.5°	4206.7	4220.2	4253.5	4338.3	4428.3	4481.2	4415.9	4222.7	3949.5	3815.4	3663.9
15°	3985.1	3992.6	4033.2	4150.1	4311.3	4475.0	4536.6	4393.8	4091.0	3926.1	3745.2
17.5°	3890.4	3894.1	3922.4	4000.0	4150.1	4383.9	4604.1	4579.6	4264.5	4063.9	3844.9
20°	3842.4	3851.1	3891.6	3968.0	4062.7	4267.0	4614.1	4780.2	4471.3	4236.2	3970.4
22.5°	3979.0	3975.3	3990.0	4028.3	4108.2	4231.3	4606.7	4987.0	4734.6	4457.8	4134.1
25°	4297.8	4311.3	4285.4	4242.4	4268.2	4354.4	4646.0	5211.0	5064.5	4742.1	4348.2
27.5°	4751.9	4738.3	4700.3	4599.3	4546.4	4583.3	4776.5	5452.2	5474.3	5116.2	4631.3
30°	5204.8	5193.7	5156.8	5033.8	4925.4	4894.7	5030.1	5729.1	5963.0	5565.4	4978.4
32.5°	5675.0	5662.7	5628.2	5505.1	5374.7	5303.3	5390.7	6049.1	6538.9	6102.0	5387.0
35°	6254.6	6231.3	6158.6	5987.6	5859.6	5804.2	5844.9	6451.5	7203.6	6737.2	5882.9
37.5°	6799.9	6835.6	6761.7	6525.4	6359.3	6339.6	6385.1	6942.7	7919.8	7447.2	6452.9
40°	7347.5	7353.7	7287.3	7093.9	6923.0	6891.0	7005.3	7538.4	8765.5	8296.5	7145.8
42.5°	7913.7	7926.0	7814.0	7635.6	7510.1	7516.2	7646.6	8236.2	9735.2	9297.1	7943.2
45°	8584.5	8603.0	8479.8	8246.1	8131.5	8361.7	8307.5	9019.0	10798.6	10434.3	8859.0
47.5°	9286.1	9314.4	9220.7	9001.7	8859.0	9175.3	8968.4	9886.7	11943.2	11653.9	9864.5
50°	9668.8	9709.4	9800.4	9784.5	9753.7	9700.8	9705.7	10817.1	13123.4	12924.1	10898.3
52.5°	9463.3	9462.0	9794.3	10197.9	10628.7	10660.8	10604.1	11798.0	14226.2	14165.9	11871.8
55°	8523.0	8586.9	9090.3	9871.8	11048.4	11783.2	11950.6	12921.6	15309.3	15379.5	12860.2
57.5°	6957.4	7010.3	7689.6	8779.0	10482.4	12450.2	13865.6	14554.9	16520.3	16847.7	14175.8
60°	4718.7	4782.8	5502.7	6811.0	8958.6	12078.6	15688.3	17469.3	17970.2	18714.8	16021.9
62.5°	2772.9	2830.7	3417.7	4296.5	6307.5	10351.9	16488.4	21615.7	20272.9	21531.9	18837.8
65°	1908.9	1948.3	2233.8	2674.4	3624.5	6972.2	15496.4	24478.3	23816.3	25022.3	22103.0
67.5°	1535.9	1531.0	1757.6	2057.8	2333.4	3595.0	11717.9	24154.7	26932.5	27435.9	23797.8
70°	1265.2	1260.3	1414.2	1662.7	1864.6	2024.6	6382.7	20383.6	26297.4	26501.7	22237.2
72.5°	1058.4	1063.4	1161.9	1346.4	1529.8	1524.9	2804.9	14339.4	20687.7	22100.5	17726.4
75°	893.5	896.0	961.3	1091.7	1241.8	1228.3	1521.2	7768.5	12025.6	13009.1	9826.3
77.5°	760.6	763.0	804.9	877.6	984.7	979.7	1110.2	3356.2	5016.5	4955.0	3361.2
80°	678.2	678.2	697.8	711.4	770.5	748.3	823.4	1612.2	2120.6	1958.2	1341.4
82.5°	531.6	534.2	654.8	649.9	606.7	578.4	578.4	950.1	1123.6	1038.7	785.2
85°	299.1	297.8	422.2	509.4	534.2	407.4	403.7	531.6	611.7	539.0	380.3
87.5°	128.1	130.4	195.7	226.5	302.7	253.5	249.8	274.5	311.4	269.6	176.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2
2.5°	3474.5	3442.4	3372.3	3284.9	3206.1	3154.5	3107.7	3039.9	3043.6	2996.9	2962.4
5°	3471.9	3405.5	3243.1	3049.8	2863.9	2729.9	2628.9	2537.8	2515.7	2472.5	2446.8
7.5°	3474.5	3366.1	3092.9	2783.9	2553.8	2383.9	2297.8	2249.7	2238.7	2224.0	2225.2
10°	3482.9	3330.4	2927.9	2535.4	2294.1	2182.1	2161.1	2176.0	2193.2	2198.1	2199.4
12.5°	3502.8	3298.4	2747.0	2313.8	2131.6	2097.2	2132.8	2183.3	2216.6	2232.6	2231.4
15°	3547.0	3273.9	2573.5	2140.3	2041.8	2060.3	2126.7	2198.1	2246.2	2268.2	2269.6
17.5°	3595.0	3238.1	2395.1	2007.3	1975.3	2022.2	2104.6	2188.3	2247.4	2271.9	2276.9
20°	3657.8	3193.7	2207.9	1907.6	1912.6	1965.5	2043.0	2126.7	2192.0	2212.9	2222.8
22.5°	3740.3	3145.8	2044.2	1826.4	1841.2	1881.8	1942.1	2014.7	2071.3	2081.2	2089.8
25°	3851.1	3094.1	1913.7	1752.6	1758.7	1782.1	1822.8	1865.8	1905.2	1894.1	1902.7
27.5°	4000.0	3049.8	1816.6	1684.9	1673.9	1678.8	1699.6	1713.1	1734.2	1703.4	1707.0
30°	4174.7	3001.8	1741.5	1625.8	1595.0	1586.5	1591.4	1598.8	1614.8	1572.9	1566.8
32.5°	4377.8	2944.0	1671.3	1574.1	1531.0	1513.8	1516.3	1535.9	1597.5	1571.7	1558.1
35°	4614.1	2878.8	1597.5	1517.5	1488.0	1463.3	1460.9	1522.4	1705.9	1689.8	1677.4
37.5°	4891.0	2813.5	1523.6	1453.4	1456.0	1428.9	1420.3	1490.4	1726.8	1664.0	1655.4
40°	5243.1	2779.0	1460.9	1385.9	1416.5	1412.9	1395.7	1431.4	1588.8	1474.5	1459.7
42.5°	5678.6	2783.9	1414.2	1313.2	1369.8	1409.2	1382.1	1383.3	1439.9	1353.8	1340.3
45°	6216.6	2841.9	1380.9	1255.4	1316.9	1405.5	1377.2	1357.5	1362.5	1316.9	1309.5
47.5°	6844.2	2961.2	1357.5	1207.4	1266.5	1392.0	1376.0	1350.1	1339.1	1314.4	1308.3
50°	7542.0	3134.7	1340.3	1161.9	1220.9	1369.8	1377.2	1342.8	1330.4	1320.6	1316.9
52.5°	8227.6	3332.9	1314.4	1122.4	1185.3	1342.8	1380.9	1335.3	1321.8	1314.4	1310.8
55°	8991.8	3580.2	1275.0	1089.2	1155.6	1308.3	1380.9	1324.3	1309.5	1310.8	1309.5
57.5°	10024.4	3980.2	1228.3	1060.9	1120.0	1266.5	1357.5	1311.9	1293.5	1294.7	1296.0
60°	11638.0	4685.5	1171.7	1032.6	1075.6	1217.2	1325.6	1284.9	1266.5	1271.3	1272.6
62.5°	14010.9	5720.5	1097.8	990.8	1028.9	1164.2	1281.2	1250.5	1232.0	1244.3	1244.3
65°	16477.3	6633.7	1006.8	937.9	979.7	1106.5	1225.8	1207.4	1188.8	1217.2	1215.9
67.5°	17140.6	6429.5	915.7	880.0	930.5	1042.5	1159.4	1149.5	1139.7	1188.8	1186.4
70°	15226.8	5161.7	832.0	820.9	876.3	973.5	1088.0	1088.0	1081.7	1118.7	1110.2
72.5°	11601.0	3660.3	752.0	758.1	814.7	898.4	1010.4	1019.1	1009.2	1027.7	1020.3
75°	6210.4	2094.7	672.0	689.2	738.5	822.1	924.4	932.8	926.7	925.5	929.2
77.5°	2064.0	1024.0	588.3	615.3	658.4	743.4	834.4	848.0	833.2	830.8	829.5
80°	919.4	643.6	496.0	531.6	569.8	653.5	739.6	750.7	734.8	756.9	728.6
82.5°	590.8	423.4	397.4	436.9	473.8	563.7	644.9	647.4	632.6	734.8	626.5
85°	286.8	262.1	299.1	334.8	366.8	443.0	534.2	535.4	498.4	454.2	438.1
87.5°	142.8	152.6	199.4	231.4	247.4	304.0	389.0	381.6	365.6	332.2	306.5
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)