

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: P191355

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191355
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-07-LED-E1-T2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27846.8 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

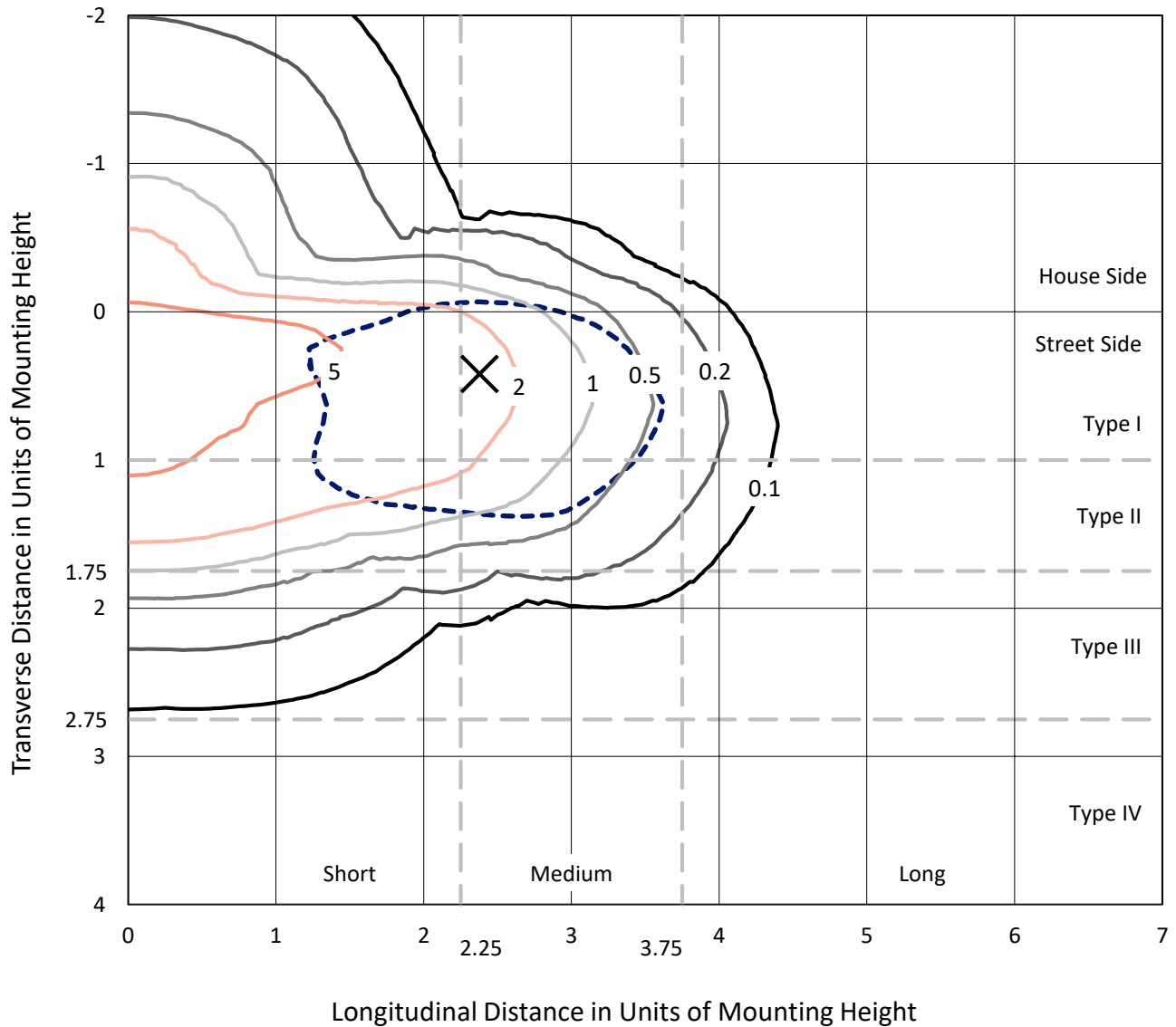
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

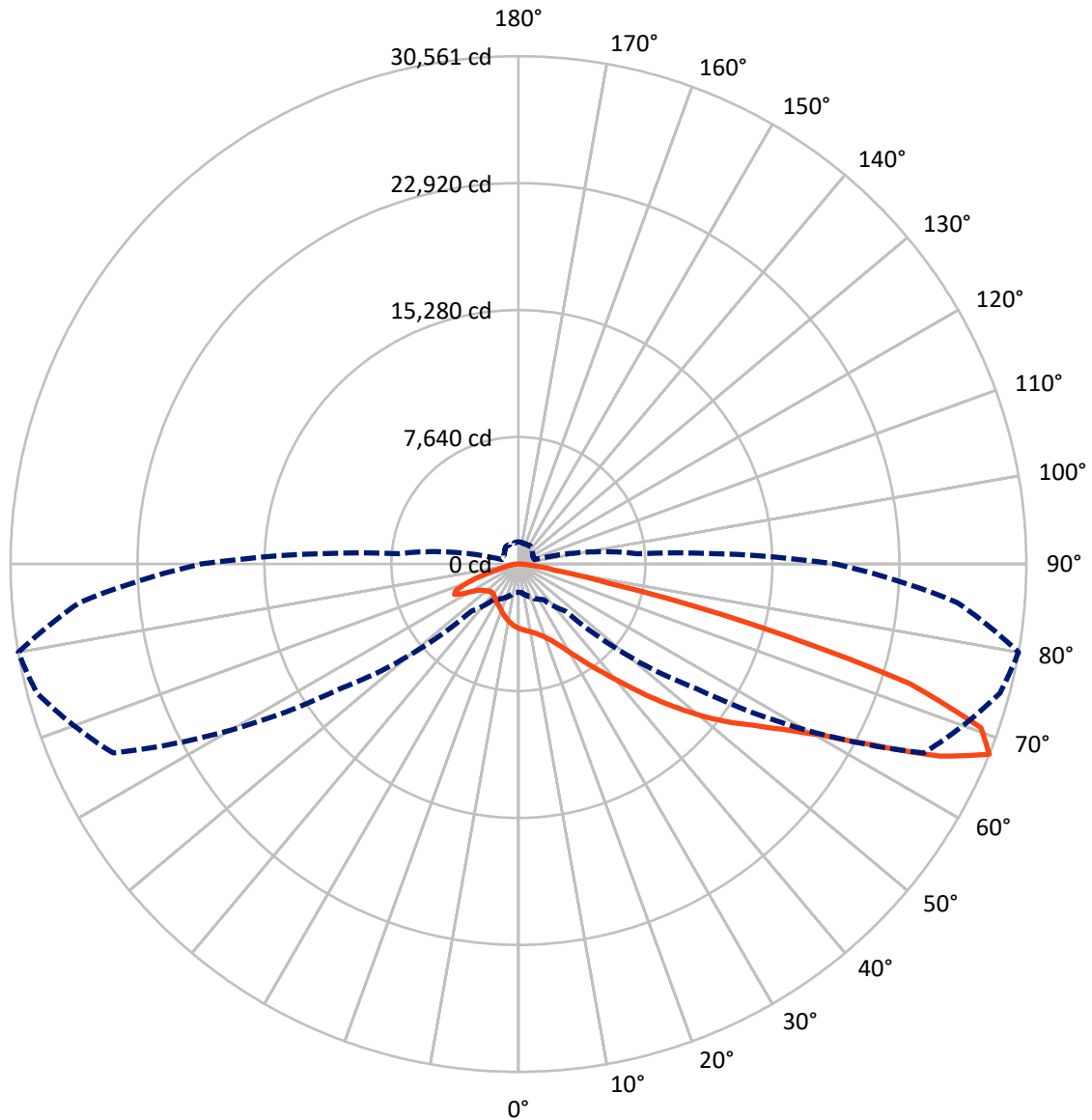
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5128.3	0.0	5128.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	22718.4	0.0	22718.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	27846.8	0.0	27846.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.9	1.3
10°-20°	1028.0	3.7
20°-30°	1701.6	6.1
30°-40°	2783.4	10.0
40°-50°	4494.1	16.1
50°-60°	6488.2	23.3
60°-70°	7160.2	25.7
70°-80°	3300.4	11.9
80°-90°	533.8	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°	27846.8	100.0
0°-180°	27846.8	100.0



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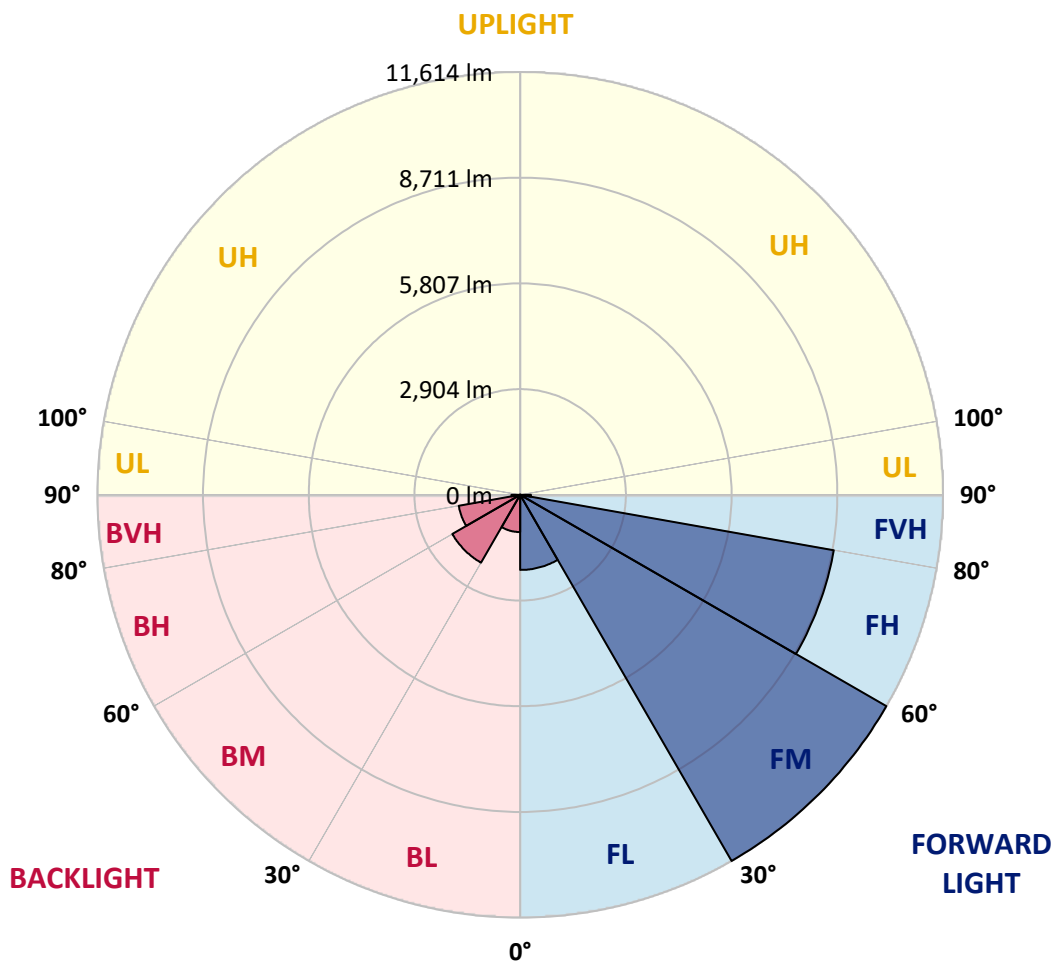
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2063.4	7.4			
FM	(30°-60°)	11614.2	41.7			
FH	(60°-80°)	8747.4	31.4			G4/12000
FVH	(80°-90°)	293.5	1.1			G3/500
BL	(0°-30°)	1023.2	3.7	B3/2500		
BM	(30°-60°)	2151.6	7.7	B2/2500		
BH	(60°-80°)	1713.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	240.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7
2.5°	4232.0	4207.3	4211.5	4204.6	4184.1	4148.4	4110.0	4040.0	3967.4	3929.1	3898.9
5°	4585.7	4578.8	4569.2	4547.3	4495.3	4421.2	4329.3	4206.0	4073.0	4003.1	3935.9
7.5°	4850.3	4846.2	4833.9	4820.1	4769.4	4680.3	4541.8	4366.4	4173.0	4077.1	3972.9
10°	4872.2	4879.1	4888.7	4925.7	4932.6	4884.6	4743.3	4530.9	4277.3	4153.9	4020.9
12.5°	4685.8	4700.9	4737.9	4832.5	4932.6	4991.5	4918.9	4703.6	4399.3	4249.8	4081.3
15°	4439.0	4447.3	4492.5	4622.7	4802.3	4984.6	5053.2	4894.2	4556.9	4373.2	4171.7
17.5°	4333.4	4337.6	4369.1	4455.5	4622.7	4883.2	5128.6	5101.1	4750.2	4526.8	4282.8
20°	4280.0	4289.6	4334.9	4419.9	4525.4	4752.9	5139.6	5324.7	4980.5	4718.7	4422.6
22.5°	4432.1	4428.0	4444.5	4487.0	4576.1	4713.2	5131.3	5554.9	5273.9	4965.5	4604.9
25°	4787.2	4802.3	4773.5	4725.5	4754.4	4850.3	5175.2	5804.4	5641.4	5282.1	4843.5
27.5°	5293.2	5278.0	5235.6	5123.1	5064.1	5105.3	5320.6	6073.2	6097.8	5698.9	5158.7
30°	5797.6	5785.3	5744.2	5607.0	5486.4	5452.1	5602.9	6381.6	6642.1	6199.3	5545.3
32.5°	6321.3	6307.6	6269.2	6132.1	5986.8	5907.2	6004.6	6738.1	7283.7	6797.0	6000.5
35°	6967.0	6940.9	6860.1	6669.5	6526.9	6465.3	6510.5	7186.3	8023.9	7504.4	6553.0
37.5°	7574.3	7614.0	7531.8	7268.6	7083.5	7061.6	7112.3	7733.3	8821.8	8295.4	7187.8
40°	8184.3	8191.2	8117.2	7902.0	7711.4	7675.7	7803.3	8396.9	9763.7	9241.3	7959.6
42.5°	8815.0	8828.7	8704.0	8505.1	8365.3	8372.1	8517.5	9174.1	10844.0	10355.9	8847.9
45°	9562.1	9582.7	9445.6	9185.2	9057.6	9314.0	9253.7	10046.1	12028.5	11622.7	9867.9
47.5°	10343.6	10375.1	10270.9	10026.9	9867.9	10220.2	9989.8	11012.6	13303.4	12981.2	10987.9
50°	10769.9	10815.1	10916.6	10898.8	10864.6	10805.5	10811.1	12049.0	14618.1	14396.0	12139.5
52.5°	10541.0	10539.6	10909.8	11359.5	11839.2	11874.9	11811.8	13141.6	15846.4	15779.2	13223.9
55°	9493.6	9564.9	10125.6	10996.1	12306.7	13125.2	13311.6	14393.2	17052.8	17130.9	14324.7
57.5°	7749.8	7808.7	8565.5	9778.8	11676.1	13868.1	15444.7	16212.4	18401.8	18766.4	15790.2
60°	5256.1	5327.4	6129.3	7586.6	9978.9	13454.2	17475.1	19458.8	20016.8	20846.2	17846.6
62.5°	3088.7	3153.1	3807.0	4785.9	7025.9	11530.8	18366.2	24077.4	22581.7	23984.2	20983.3
65°	2126.3	2170.2	2488.2	2979.0	4037.4	7766.2	17261.2	27266.1	26528.6	27872.1	24620.3
67.5°	1710.9	1705.5	1957.6	2292.1	2599.2	4004.4	13052.4	26905.7	29999.8	30560.5	26508.0
70°	1409.3	1403.8	1575.1	1852.2	2076.9	2255.2	7109.6	22705.1	29292.4	29519.9	24769.7
72.5°	1179.0	1184.5	1294.1	1499.7	1704.0	1698.6	3124.3	15972.6	23043.7	24617.5	19745.3
75°	995.3	998.0	1070.7	1216.0	1383.2	1368.2	1694.4	8653.2	13395.2	14490.6	10945.4
77.5°	847.2	850.0	896.6	977.4	1096.7	1091.3	1236.5	3738.5	5587.9	5519.3	3744.0
80°	755.3	755.3	777.3	792.4	858.2	833.5	917.2	1795.9	2362.1	2181.1	1494.3
82.5°	592.2	594.9	729.4	723.8	675.9	644.4	644.4	1058.3	1251.7	1157.1	874.6
85°	333.2	331.7	470.3	567.5	594.9	453.8	449.7	592.2	681.4	600.5	423.6
87.5°	142.6	145.4	218.0	252.3	337.3	282.4	278.3	305.8	346.9	300.2	196.0
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°	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7
2.5°	3870.1	3834.4	3756.3	3659.0	3571.2	3513.6	3461.6	3386.2	3390.3	3338.2	3299.8
5°	3867.4	3793.3	3612.3	3397.1	3190.1	3040.7	2928.3	2826.8	2802.2	2754.2	2725.3
7.5°	3870.1	3749.4	3445.1	3101.0	2844.6	2655.5	2559.5	2506.0	2493.6	2477.3	2478.6
10°	3879.6	3709.7	3261.4	2824.1	2555.4	2430.6	2407.3	2423.8	2443.0	2448.4	2449.9
12.5°	3901.6	3674.0	3059.9	2577.3	2374.5	2336.0	2375.8	2432.0	2469.0	2486.8	2485.5
15°	3950.9	3646.6	2866.6	2384.0	2274.3	2294.9	2368.9	2448.4	2501.9	2526.6	2528.0
17.5°	4004.4	3606.9	2667.8	2236.0	2200.4	2252.4	2344.3	2437.5	2503.3	2530.7	2536.2
20°	4074.4	3557.5	2459.4	2124.9	2130.4	2189.3	2275.8	2368.9	2441.6	2464.9	2475.8
22.5°	4166.2	3504.0	2277.1	2034.4	2050.9	2096.1	2163.3	2244.1	2307.3	2318.2	2327.8
25°	4289.6	3446.5	2131.7	1952.2	1959.1	1985.0	2030.4	2078.3	2122.2	2109.8	2119.5
27.5°	4455.5	3397.1	2023.5	1876.8	1864.4	1870.0	1893.3	1908.3	1931.6	1897.4	1901.5
30°	4650.1	3343.6	1939.8	1810.9	1776.7	1767.1	1772.6	1780.9	1798.7	1752.0	1745.2
32.5°	4876.3	3279.3	1861.7	1753.4	1705.5	1686.2	1689.0	1710.9	1779.4	1750.7	1735.5
35°	5139.6	3206.5	1779.4	1690.3	1657.5	1630.0	1627.3	1695.8	1900.1	1882.2	1868.5
37.5°	5448.0	3133.9	1697.2	1619.0	1621.8	1591.6	1582.0	1660.1	1923.4	1853.5	1843.9
40°	5840.1	3095.6	1627.3	1543.6	1577.9	1573.8	1554.6	1594.4	1769.8	1642.3	1625.9
42.5°	6325.4	3101.0	1575.1	1462.7	1525.8	1569.7	1539.5	1540.9	1604.0	1508.0	1492.9
45°	6924.5	3165.4	1538.2	1398.4	1466.9	1565.6	1534.0	1512.1	1517.6	1466.9	1458.6
47.5°	7623.6	3298.4	1512.1	1344.9	1410.6	1550.5	1532.7	1503.9	1491.6	1464.1	1457.3
50°	8401.0	3491.7	1492.9	1294.1	1359.9	1525.8	1534.0	1495.7	1481.9	1471.0	1466.9
52.5°	9164.6	3712.4	1464.1	1250.3	1320.2	1495.7	1538.2	1487.5	1472.3	1464.1	1460.1
55°	10015.9	3988.0	1420.3	1213.2	1287.3	1457.3	1538.2	1475.1	1458.6	1460.1	1458.6
57.5°	11166.1	4433.6	1368.2	1181.7	1247.5	1410.6	1512.1	1461.4	1440.8	1442.2	1443.6
60°	12963.3	5219.1	1305.1	1150.2	1198.2	1355.8	1476.5	1431.2	1410.6	1416.2	1417.5
62.5°	15606.5	6372.1	1222.8	1103.6	1146.1	1296.9	1427.1	1392.8	1372.3	1386.0	1386.0
65°	18353.8	7389.3	1121.4	1044.6	1091.3	1232.5	1365.4	1344.9	1324.3	1355.8	1354.5
67.5°	19092.8	7161.7	1020.0	980.2	1036.5	1161.2	1291.4	1280.4	1269.5	1324.3	1321.6
70°	16960.9	5749.6	926.7	914.4	976.1	1084.4	1211.9	1211.9	1205.0	1246.2	1236.5
72.5°	12922.2	4077.1	837.6	844.4	907.6	1000.8	1125.6	1135.2	1124.1	1144.7	1136.5
75°	6917.6	2333.2	748.5	767.7	822.6	915.7	1029.6	1039.1	1032.3	1030.9	1035.0
77.5°	2299.0	1140.6	655.3	685.5	733.5	828.1	929.5	944.6	928.1	925.4	924.0
80°	1024.1	717.0	552.5	592.2	634.7	727.9	823.9	836.3	818.5	843.1	811.6
82.5°	658.1	471.6	442.8	486.7	527.8	627.9	718.3	721.1	704.6	818.5	697.8
85°	319.5	292.1	333.2	372.9	408.6	493.6	594.9	596.4	555.3	505.8	488.0
87.5°	159.1	170.0	222.1	257.7	275.6	338.6	433.2	424.9	407.1	370.1	341.4
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)