

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: P193914

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193914
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-06-LED-E1-T2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28509 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 333
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

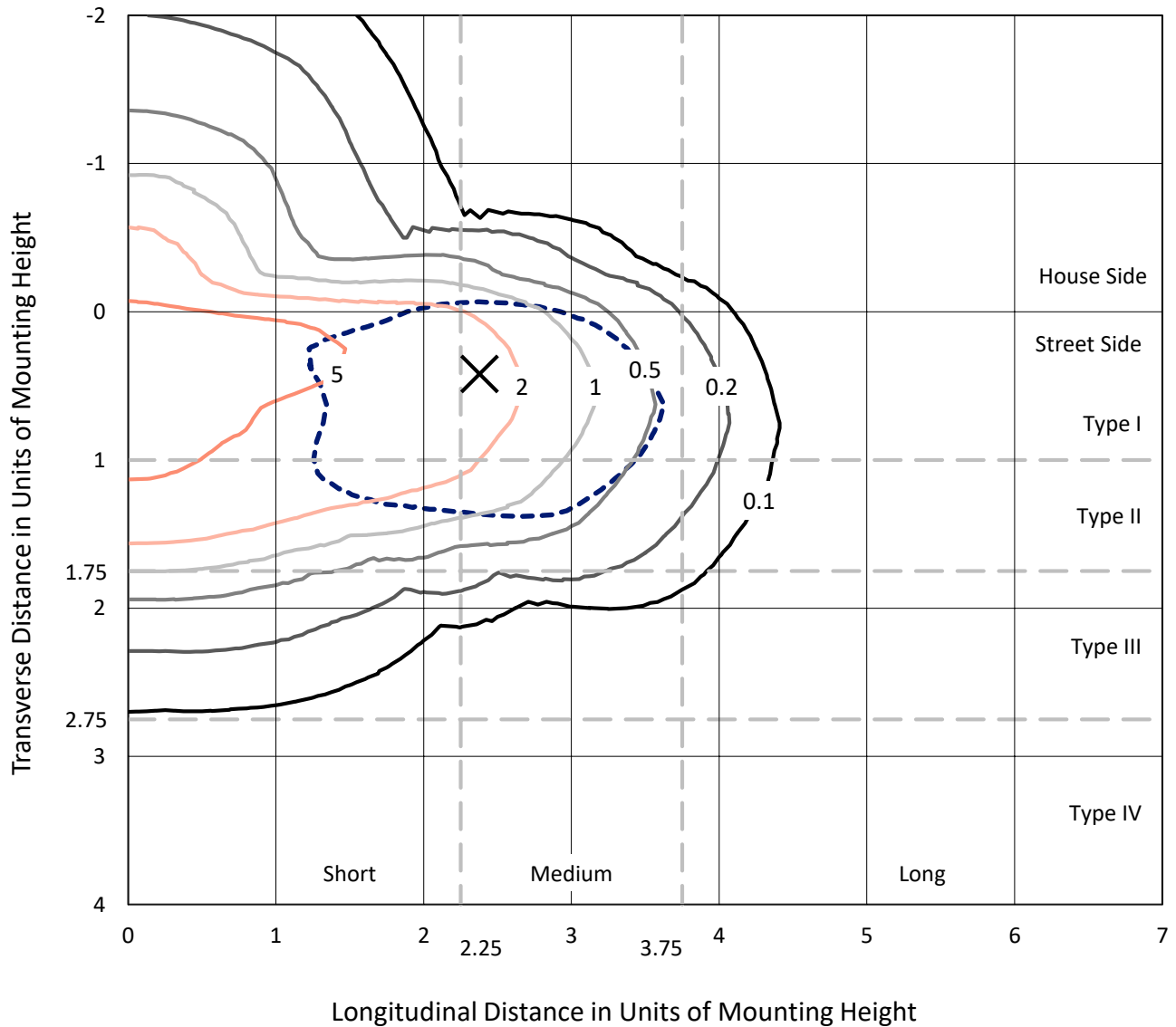


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

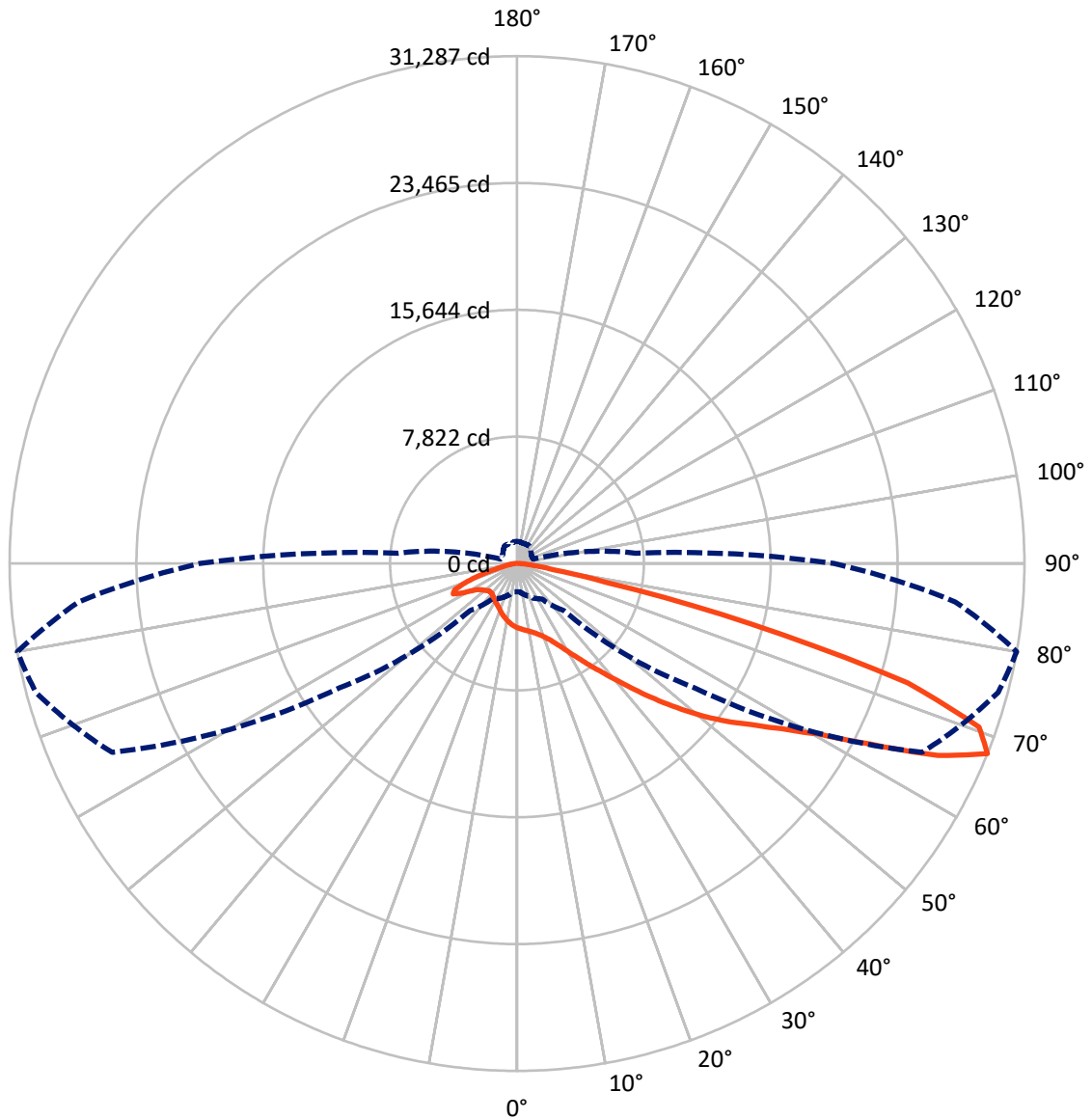


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - Full Cutoff

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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	5250.3	0.0	5250.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	23258.7	0.0	23258.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	28509.0	0.0	28509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.4	1.3
10°-20°	1052.5	3.7
20°-30°	1742.1	6.1
30°-40°	2849.6	10.0
40°-50°	4601.0	16.1
50°-60°	6642.5	23.3
60°-70°	7330.5	25.7
70°-80°	3378.9	11.9
80°-90°	546.5	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°	28509.0	100.0
0°-180°	28509.0	100.0



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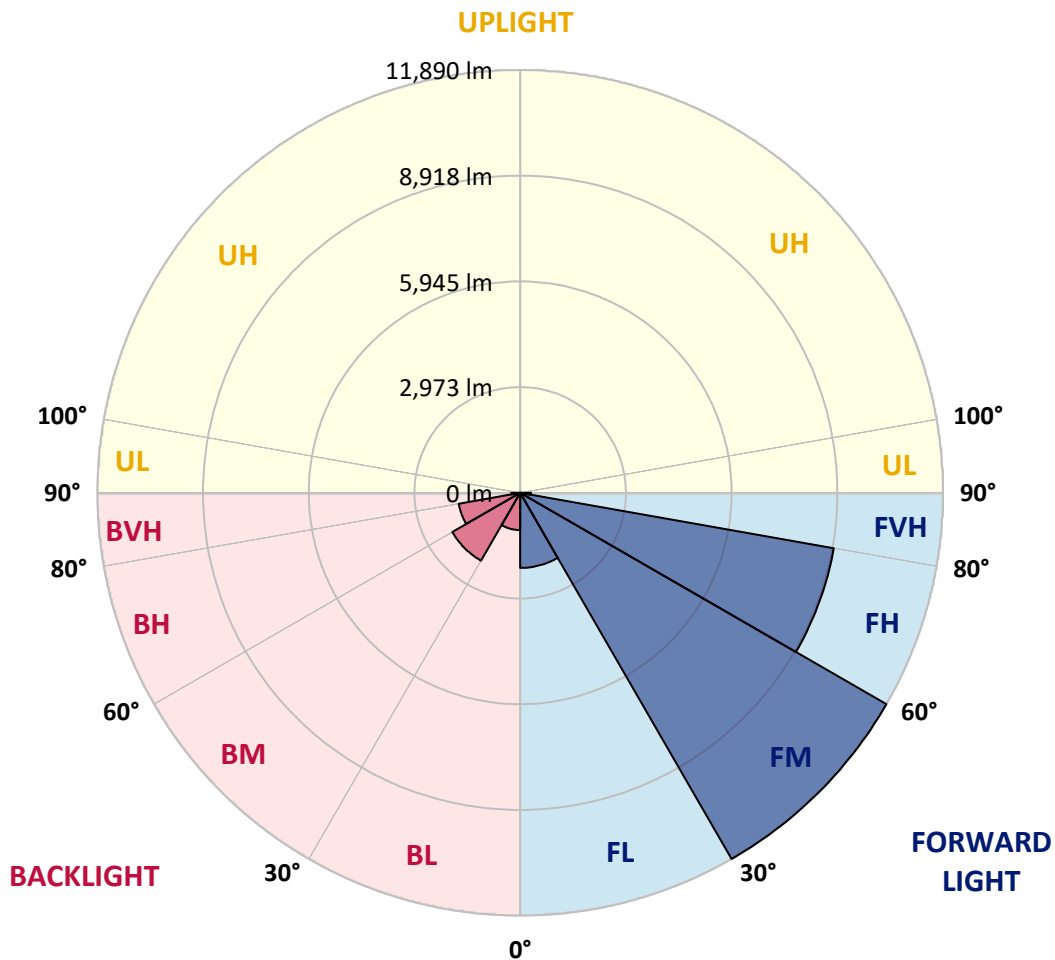
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.5	7.4			
FM (30°-60°)	11890.4	41.7			
FH (60°-80°)	8955.4	31.4			G4/12000
FVH (80°-90°)	300.5	1.1			G3/500
BL (0°-30°)	1047.5	3.7	B3/2500		
BM (30°-60°)	2202.8	7.7	B2/2500		
BH (60°-80°)	1753.9	6.2	B3/2500		G3/2500
BVH (80°-90°)	246.0	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°	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7
2.5°	4332.7	4307.4	4311.6	4304.6	4283.5	4247.0	4207.7	4136.2	4061.8	4022.5	3991.6
5°	4694.8	4687.8	4677.9	4655.5	4602.1	4526.3	4432.3	4306.0	4169.9	4098.3	4029.5
7.5°	4965.6	4961.4	4948.8	4934.8	4882.8	4791.6	4649.9	4470.2	4272.3	4174.1	4067.4
10°	4988.1	4995.1	5004.9	5042.8	5049.9	5000.7	4856.2	4638.6	4379.0	4252.7	4116.5
12.5°	4797.2	4812.7	4850.6	4947.4	5049.9	5110.2	5035.8	4815.5	4503.9	4350.9	4178.3
15°	4544.6	4553.0	4599.3	4732.7	4916.5	5103.2	5173.4	5010.6	4665.3	4477.2	4270.9
17.5°	4436.5	4440.7	4473.0	4561.4	4732.7	4999.3	5250.6	5222.5	4863.2	4634.4	4384.6
20°	4381.8	4391.6	4437.9	4524.9	4633.0	4866.0	5261.8	5451.3	5099.0	4830.9	4527.8
22.5°	4537.6	4533.4	4550.2	4593.7	4684.9	4825.3	5253.4	5687.1	5399.3	5083.5	4714.4
25°	4901.1	4916.5	4887.1	4837.9	4867.4	4965.6	5298.3	5942.5	5775.5	5407.8	4958.6
27.5°	5419.0	5403.5	5360.0	5244.9	5184.6	5226.7	5447.1	6217.6	6242.9	5834.4	5281.4
30°	5935.5	5922.8	5880.7	5740.4	5616.9	5581.8	5736.2	6533.4	6800.0	6346.7	5677.2
32.5°	6471.6	6457.6	6418.3	6277.9	6129.2	6047.8	6147.4	6898.3	7456.9	6958.6	6143.2
35°	7132.7	7106.0	7023.2	6828.1	6682.2	6619.0	6665.3	7357.2	8214.8	7682.9	6708.8
37.5°	7754.4	7795.1	7710.9	7441.5	7252.0	7229.5	7281.5	7917.2	9031.6	8492.7	7358.6
40°	8379.0	8386.0	8310.2	8089.9	7894.8	7858.3	7988.8	8596.6	9995.9	9461.1	8148.8
42.5°	9024.6	9038.7	8910.9	8707.4	8564.3	8571.3	8720.1	9392.3	11101.8	10602.2	9058.3
45°	9789.5	9810.6	9670.2	9403.6	9273.0	9535.5	9473.8	10285.0	12314.5	11899.0	10102.5
47.5°	10589.5	10621.8	10515.2	10265.3	10102.5	10463.2	10227.4	11274.5	13619.7	13289.9	11249.2
50°	11026.0	11072.4	11176.2	11158.0	11122.9	11062.5	11068.1	12335.5	14965.7	14738.3	12428.2
52.5°	10791.7	10790.3	11169.2	11629.6	12120.8	12157.3	12092.7	13454.1	16223.3	16154.5	13538.3
55°	9719.4	9792.3	10366.4	11257.6	12599.4	13437.3	13628.2	14735.5	17458.4	17538.4	14665.4
57.5°	7934.1	7994.4	8769.2	10011.3	11953.8	14198.0	15812.0	16598.0	18839.4	19212.8	16165.7
60°	5381.1	5454.1	6275.1	7767.1	10216.2	13774.1	17890.7	19921.5	20492.8	21341.9	18271.0
62.5°	3162.1	3228.1	3897.6	4899.7	7193.0	11805.0	18802.9	24650.0	23118.8	24554.6	21482.3
65°	2176.9	2221.8	2547.4	3049.8	4133.4	7950.9	17671.7	27914.6	27159.5	28534.9	25205.8
67.5°	1751.6	1746.0	2004.2	2346.7	2661.1	4099.7	13362.9	27545.5	30713.2	31287.2	27138.4
70°	1442.8	1437.2	1612.6	1896.2	2126.3	2308.8	7278.6	23245.1	29989.0	30222.0	25358.8
72.5°	1207.0	1212.6	1324.9	1535.4	1744.6	1739.0	3198.6	16352.4	23591.7	25203.0	20214.9
75°	1019.0	1021.8	1096.1	1244.9	1416.2	1400.7	1734.7	8859.0	13713.8	14835.2	11205.7
77.5°	867.4	870.2	917.9	1000.7	1122.8	1117.2	1266.0	3827.4	5720.7	5650.6	3833.0
80°	773.3	773.3	795.8	811.2	878.6	853.3	939.0	1838.6	2418.3	2233.0	1529.8
82.5°	606.3	609.1	746.7	741.1	691.9	659.7	659.7	1083.5	1281.4	1184.6	895.4
85°	341.1	339.7	481.4	581.1	609.1	464.6	460.4	606.3	697.5	614.7	433.7
87.5°	146.0	148.8	223.2	258.2	345.3	289.1	284.9	313.0	355.1	307.4	200.7
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°	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7	3960.7
2.5°	3962.1	3925.6	3845.6	3746.0	3656.2	3597.2	3543.9	3466.7	3470.9	3417.6	3378.3
5°	3959.3	3883.5	3698.3	3477.9	3266.0	3113.0	2997.9	2894.1	2868.8	2819.7	2790.2
7.5°	3962.1	3838.6	3527.0	3174.8	2912.3	2718.6	2620.4	2565.6	2553.0	2536.2	2537.6
10°	3972.0	3797.9	3339.0	2891.2	2616.2	2488.4	2464.6	2481.4	2501.1	2506.7	2508.1
12.5°	3994.4	3761.4	3132.7	2638.6	2430.9	2391.6	2432.3	2489.8	2527.7	2546.0	2544.6
15°	4044.9	3733.4	2934.8	2440.7	2328.4	2349.5	2425.3	2506.7	2561.4	2586.7	2588.1
17.5°	4099.7	3692.7	2731.2	2289.1	2252.6	2306.0	2400.0	2495.5	2562.8	2590.9	2596.5
20°	4171.3	3642.1	2517.9	2175.5	2181.1	2241.4	2329.8	2425.3	2499.7	2523.5	2534.8
22.5°	4265.3	3587.4	2331.2	2082.8	2099.7	2146.0	2214.8	2297.6	2362.1	2373.3	2383.2
25°	4391.6	3528.4	2182.5	1998.6	2005.6	2032.3	2078.6	2127.7	2172.6	2160.0	2169.8
27.5°	4561.4	3477.9	2071.6	1921.4	1908.8	1914.4	1938.3	1953.7	1977.6	1942.5	1946.7
30°	4760.7	3423.2	1986.0	1854.0	1819.0	1809.1	1814.7	1823.2	1841.4	1793.7	1786.7
32.5°	4992.3	3357.2	1906.0	1795.1	1746.0	1726.3	1729.1	1751.6	1821.8	1792.3	1776.9
35°	5261.8	3282.8	1821.8	1730.5	1696.9	1668.8	1666.0	1736.2	1945.3	1927.0	1913.0
37.5°	5577.6	3208.4	1737.6	1657.6	1660.4	1629.5	1619.7	1699.7	1969.1	1897.6	1887.7
40°	5979.0	3169.1	1666.0	1580.4	1615.4	1611.2	1591.6	1632.3	1811.9	1681.4	1664.6
42.5°	6475.8	3174.8	1612.6	1497.6	1562.1	1607.0	1576.2	1577.6	1642.1	1543.9	1528.4
45°	7089.2	3240.7	1574.7	1431.6	1501.8	1602.8	1570.5	1548.1	1553.7	1501.8	1493.3
47.5°	7805.0	3376.9	1548.1	1376.9	1444.2	1587.4	1569.1	1539.7	1527.0	1499.0	1491.9
50°	8600.8	3574.8	1528.4	1324.9	1392.3	1562.1	1570.5	1531.2	1517.2	1506.0	1501.8
52.5°	9382.5	3800.7	1499.0	1280.0	1351.6	1531.2	1574.7	1522.8	1507.4	1499.0	1494.7
55°	10254.1	4082.8	1454.0	1242.1	1317.9	1491.9	1574.7	1510.2	1493.3	1494.7	1493.3
57.5°	11431.7	4539.0	1400.7	1209.8	1277.2	1444.2	1548.1	1496.2	1475.1	1476.5	1477.9
60°	13271.7	5343.2	1336.1	1177.6	1226.7	1388.1	1511.6	1465.3	1444.2	1449.8	1451.2
62.5°	15977.7	6523.6	1251.9	1129.8	1173.3	1327.7	1461.1	1426.0	1404.9	1419.0	1419.0
65°	18790.3	7565.0	1148.1	1069.5	1117.2	1261.8	1397.9	1376.9	1355.8	1388.1	1386.7
67.5°	19546.8	7332.0	1044.2	1003.5	1061.1	1188.8	1322.1	1310.9	1299.7	1355.8	1353.0
70°	17364.3	5886.4	948.8	936.1	999.3	1110.2	1240.7	1240.7	1233.7	1275.8	1266.0
72.5°	13229.6	4174.1	857.5	864.6	929.1	1024.6	1152.3	1162.1	1150.9	1171.9	1163.5
75°	7082.2	2388.8	766.3	786.0	842.1	937.6	1054.0	1063.9	1056.8	1055.4	1059.7
77.5°	2353.7	1167.7	670.9	701.8	750.9	847.7	951.6	967.0	950.2	947.4	946.0
80°	1048.4	734.0	565.6	606.3	649.8	745.3	843.5	856.1	837.9	863.2	830.9
82.5°	673.7	482.8	453.3	498.2	540.4	642.8	735.4	738.3	721.4	837.9	714.4
85°	327.0	298.9	341.1	381.8	418.2	505.3	609.1	610.5	568.4	517.9	499.7
87.5°	162.8	174.0	227.4	263.9	282.1	346.7	443.5	435.1	416.8	379.0	349.5
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)