

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: P200174

Luminaire Tested: **GPC-AF-02-LED-E1-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200174
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: GPC-AF-02-LED-E1-T2-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10075 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

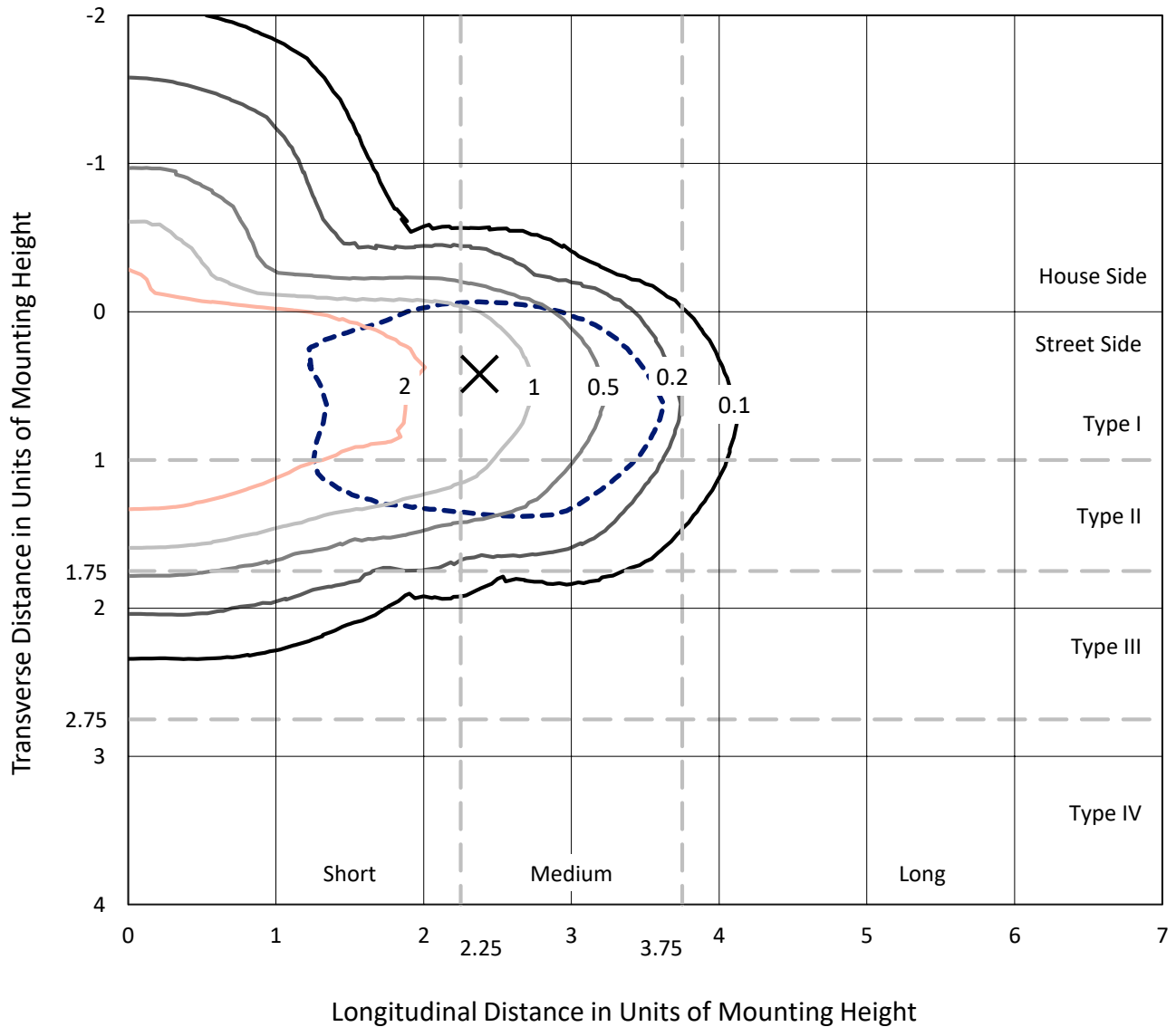
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

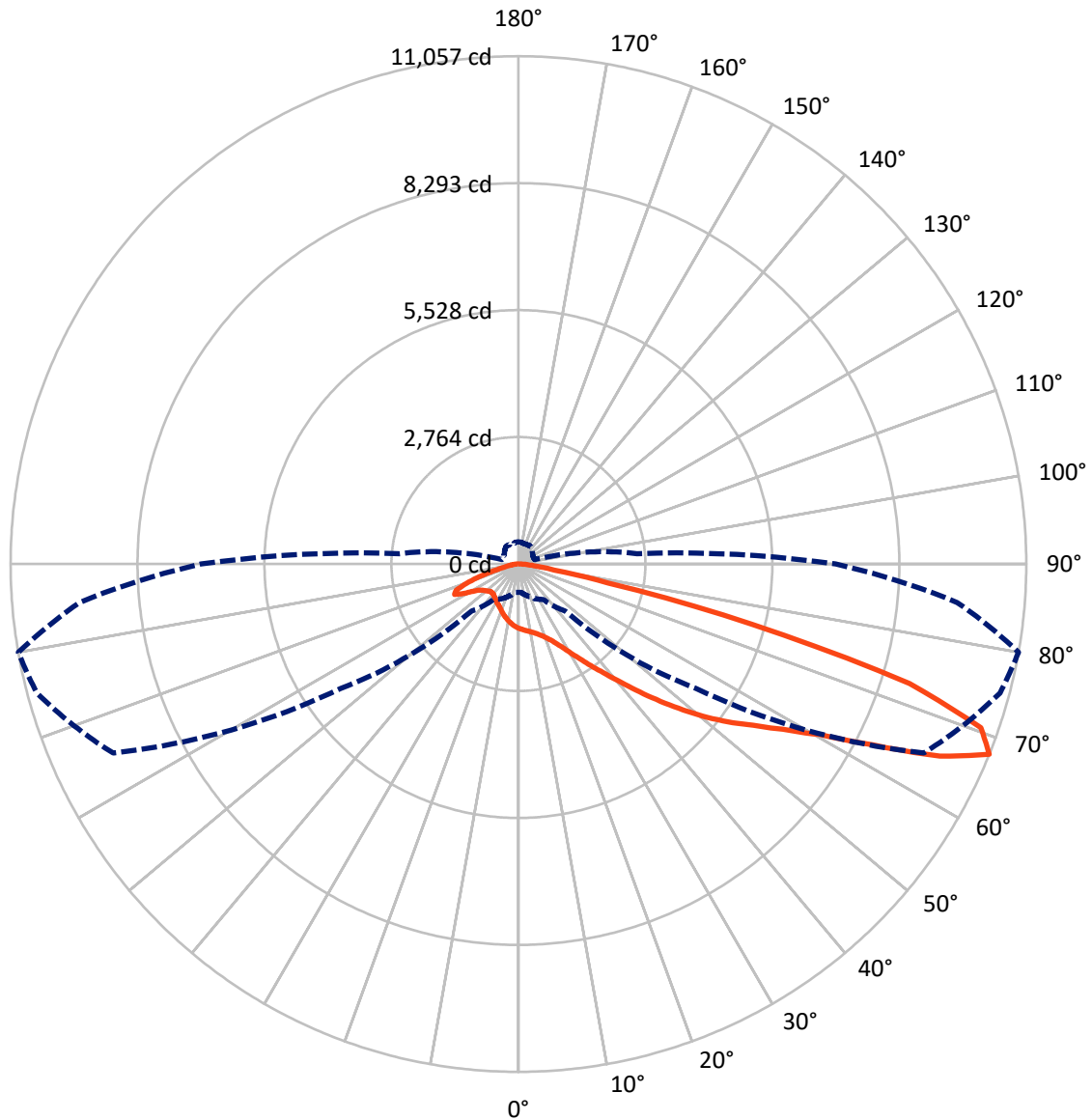
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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	1855.4	0.0	1855.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	8219.6	0.0	8219.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	10075.0	0.0	10075.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.3
10°-20°	371.9	3.7
20°-30°	615.7	6.1
30°-40°	1007.1	10.0
40°-50°	1626.0	16.1
50°-60°	2347.5	23.3
60°-70°	2590.6	25.7
70°-80°	1194.1	11.9
80°-90°	193.1	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°	10075.0	100.0
0°-180°	10075.0	100.0



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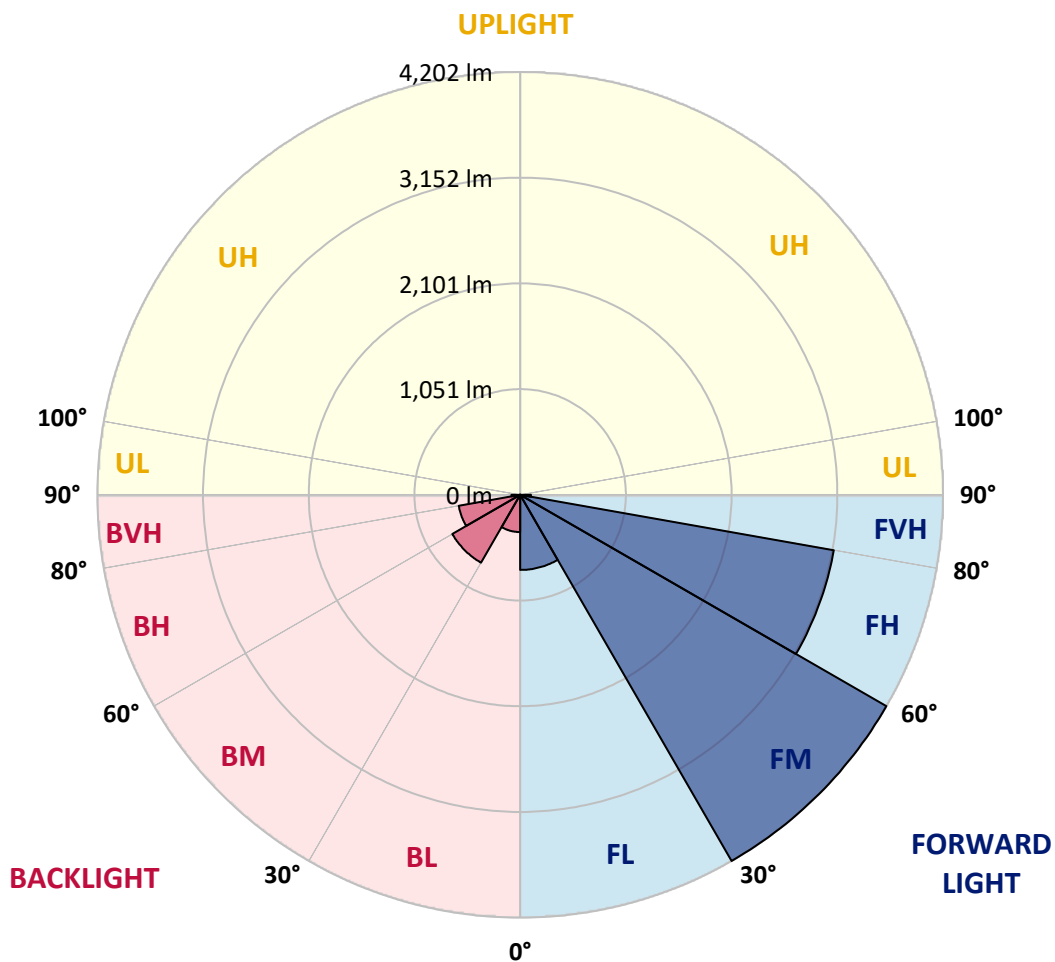
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.5	7.4			
FM	(30°-60°)	4202.1	41.7			
FH	(60°-80°)	3164.8	31.4			G2/5000
FVH	(80°-90°)	106.2	1.1			G2/225
BL	(0°-30°)	370.2	3.7	B1/500		
BM	(30°-60°)	778.5	7.7	B1/1000		
BH	(60°-80°)	619.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	86.9	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7
2.5°	1531.2	1522.3	1523.7	1521.2	1513.8	1500.9	1487.1	1461.7	1435.4	1421.5	1410.6
5°	1659.1	1656.7	1653.2	1645.2	1626.4	1599.6	1566.3	1521.7	1473.7	1448.3	1424.0
7.5°	1754.9	1753.3	1748.9	1743.9	1725.6	1693.4	1643.3	1579.7	1509.9	1475.1	1437.5
10°	1762.7	1765.3	1768.8	1782.1	1784.6	1767.2	1716.2	1639.3	1547.5	1502.9	1454.7
12.5°	1695.3	1700.8	1714.2	1748.4	1784.6	1805.9	1779.6	1701.8	1591.7	1537.6	1476.6
15°	1606.0	1609.0	1625.4	1672.5	1737.5	1803.5	1828.2	1770.7	1648.7	1582.2	1509.4
17.5°	1567.9	1569.3	1580.8	1612.0	1672.5	1766.7	1855.5	1845.6	1718.7	1637.8	1549.5
20°	1548.5	1552.0	1568.4	1599.1	1637.3	1719.7	1859.5	1926.4	1801.9	1707.2	1600.1
22.5°	1603.6	1602.0	1608.1	1623.4	1655.6	1705.3	1856.6	2009.8	1908.1	1796.5	1666.1
25°	1732.1	1737.5	1727.0	1709.8	1720.1	1754.9	1872.4	2100.1	2041.1	1911.1	1752.4
27.5°	1915.1	1909.6	1894.2	1853.6	1832.2	1847.1	1925.0	2197.3	2206.2	2061.9	1866.5
30°	2097.6	2093.2	2078.2	2028.6	1985.0	1972.6	2027.2	2308.9	2403.1	2242.9	2006.3
32.5°	2287.1	2282.1	2268.2	2218.6	2166.0	2137.3	2172.4	2437.9	2635.2	2459.2	2171.0
35°	2520.7	2511.2	2482.0	2413.0	2361.5	2339.2	2355.5	2600.0	2903.1	2715.1	2370.9
37.5°	2740.4	2754.8	2725.0	2629.8	2562.8	2554.9	2573.2	2798.0	3191.8	3001.3	2600.5
40°	2961.1	2963.6	2936.8	2858.9	2790.0	2777.1	2823.2	3038.0	3532.6	3343.5	2879.8
42.5°	3189.3	3194.3	3149.2	3077.2	3026.6	3029.1	3081.6	3319.3	3923.3	3746.8	3201.2
45°	3459.6	3467.1	3417.5	3323.3	3277.1	3369.8	3348.0	3634.7	4351.9	4205.1	3570.2
47.5°	3742.4	3753.7	3716.1	3627.8	3570.2	3697.7	3614.4	3984.4	4813.2	4696.7	3975.5
50°	3896.6	3913.0	3949.6	3943.2	3930.8	3909.5	3911.5	4359.4	5288.9	5208.6	4392.1
52.5°	3813.8	3813.3	3947.2	4109.9	4283.5	4296.4	4273.6	4754.7	5733.3	5709.0	4784.4
55°	3434.8	3460.6	3663.5	3978.5	4452.6	4748.7	4816.2	5207.5	6169.7	6198.1	5182.7
57.5°	2803.9	2825.2	3099.0	3538.0	4224.5	5017.6	5588.0	5865.7	6657.9	6789.7	5713.0
60°	1901.7	1927.4	2217.7	2744.9	3610.4	4867.7	6322.6	7040.3	7242.1	7542.2	6457.0
62.5°	1117.5	1140.8	1377.4	1731.5	2542.0	4171.9	6644.9	8711.2	8170.1	8677.6	7591.8
65°	769.3	785.2	900.2	1077.8	1460.8	2809.8	6245.1	9864.9	9598.1	10084.2	8907.7
67.5°	619.0	617.0	708.3	829.3	940.4	1448.8	4722.5	9734.5	10854.0	11056.9	9590.7
70°	509.8	507.9	569.9	670.1	751.5	815.9	2572.3	8214.8	10598.1	10680.4	8961.8
72.5°	426.6	428.5	468.2	542.7	616.5	614.6	1130.4	5779.0	8337.3	8906.7	7143.9
75°	360.1	361.1	387.4	440.0	500.4	495.0	613.1	3130.7	4846.4	5242.7	3960.0
77.5°	306.6	307.5	324.4	353.6	396.8	394.9	447.4	1352.5	2021.7	1996.9	1354.6
80°	273.3	273.3	281.2	286.7	310.5	301.6	331.8	649.8	854.6	789.1	540.6
82.5°	214.3	215.2	263.9	261.9	244.5	233.1	233.1	382.9	452.9	418.6	316.4
85°	120.5	120.0	170.1	205.3	215.2	164.2	162.6	214.3	246.5	217.3	153.2
87.5°	51.6	52.6	78.9	91.2	122.0	102.2	100.7	110.6	125.5	108.6	70.9
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°	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7
2.5°	1400.2	1387.3	1359.1	1323.8	1292.1	1271.2	1252.4	1225.1	1226.6	1207.8	1193.9
5°	1399.2	1372.4	1306.9	1229.1	1154.2	1100.1	1059.5	1022.7	1013.8	996.5	986.0
7.5°	1400.2	1356.5	1246.5	1122.0	1029.2	960.8	926.1	906.6	902.2	896.3	896.8
10°	1403.7	1342.2	1180.0	1021.7	924.5	879.4	870.9	877.0	883.8	885.9	886.4
12.5°	1411.6	1329.3	1107.0	932.5	859.1	845.2	859.6	879.9	893.3	899.8	899.3
15°	1429.5	1319.4	1037.2	862.6	822.9	830.3	857.1	885.9	905.2	914.1	914.6
17.5°	1448.8	1305.0	965.3	808.9	796.1	814.9	848.1	881.9	905.7	915.6	917.6
20°	1474.1	1287.1	889.9	768.8	770.8	792.1	823.4	857.1	883.4	891.8	895.8
22.5°	1507.3	1267.7	823.9	736.1	742.0	758.4	782.7	811.9	834.7	838.7	842.2
25°	1552.0	1247.0	771.3	706.3	708.8	718.2	734.6	752.0	767.8	763.3	766.8
27.5°	1612.0	1229.1	732.1	679.0	674.5	676.6	685.0	690.4	698.9	686.5	687.9
30°	1682.4	1209.7	701.8	655.2	642.8	639.3	641.3	644.4	650.8	633.9	631.4
32.5°	1764.3	1186.4	673.6	634.4	617.0	610.1	611.1	619.0	643.8	633.4	627.9
35°	1859.5	1160.1	643.8	611.5	599.7	589.7	588.7	613.6	687.4	681.0	676.1
37.5°	1971.1	1133.8	614.1	585.7	586.8	575.8	572.3	600.7	695.9	670.5	667.2
40°	2113.0	1119.9	588.7	558.5	570.9	569.4	562.4	576.8	640.4	594.2	588.3
42.5°	2288.5	1122.0	569.9	529.3	552.1	567.9	557.0	557.5	580.3	545.6	540.1
45°	2505.3	1145.3	556.5	506.0	530.7	566.4	555.1	547.1	549.1	530.7	527.7
47.5°	2758.3	1193.4	547.1	486.6	510.4	561.0	554.5	544.1	539.6	529.7	527.2
50°	3039.5	1263.3	540.1	468.2	492.0	552.1	555.1	541.1	536.1	532.2	530.7
52.5°	3315.8	1343.1	529.7	452.3	477.6	541.1	556.5	538.2	532.8	529.7	528.3
55°	3623.8	1442.9	513.8	438.9	465.7	527.2	556.5	533.7	527.7	528.3	527.7
57.5°	4039.9	1604.1	495.0	427.6	451.3	510.4	547.1	528.8	521.3	521.8	522.3
60°	4690.2	1888.3	472.2	416.1	433.5	490.5	534.2	517.8	510.4	512.4	512.9
62.5°	5646.5	2305.4	442.4	399.3	414.7	469.2	516.4	503.9	496.5	501.5	501.5
65°	6640.5	2673.5	405.7	378.0	394.9	445.9	494.0	486.6	479.2	490.5	490.1
67.5°	6907.8	2591.1	369.0	354.7	375.0	420.1	467.3	463.3	459.3	479.2	478.1
70°	6136.6	2080.3	335.3	330.8	353.1	392.3	438.4	438.4	436.0	450.8	447.4
72.5°	4675.3	1475.1	303.1	305.6	328.4	362.1	407.2	410.7	406.7	414.2	411.2
75°	2502.9	844.2	270.8	277.7	297.6	331.3	372.5	375.9	373.5	373.0	374.5
77.5°	831.8	412.7	237.1	248.0	265.4	299.6	336.2	341.8	335.8	334.8	334.3
80°	370.5	259.4	199.9	214.3	229.7	263.4	298.1	302.6	296.1	305.0	293.6
82.5°	238.0	170.6	160.2	176.0	191.0	227.2	259.9	260.9	254.9	296.1	252.5
85°	115.6	105.7	120.5	134.9	147.8	178.6	215.2	215.7	200.9	183.0	176.6
87.5°	57.5	61.5	80.3	93.3	99.7	122.5	156.7	153.7	147.3	133.9	123.5
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)