

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: P200305

Luminaire Tested: **GPC-AF-01-LED-E1-SL4-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-SL4-7050-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5660 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

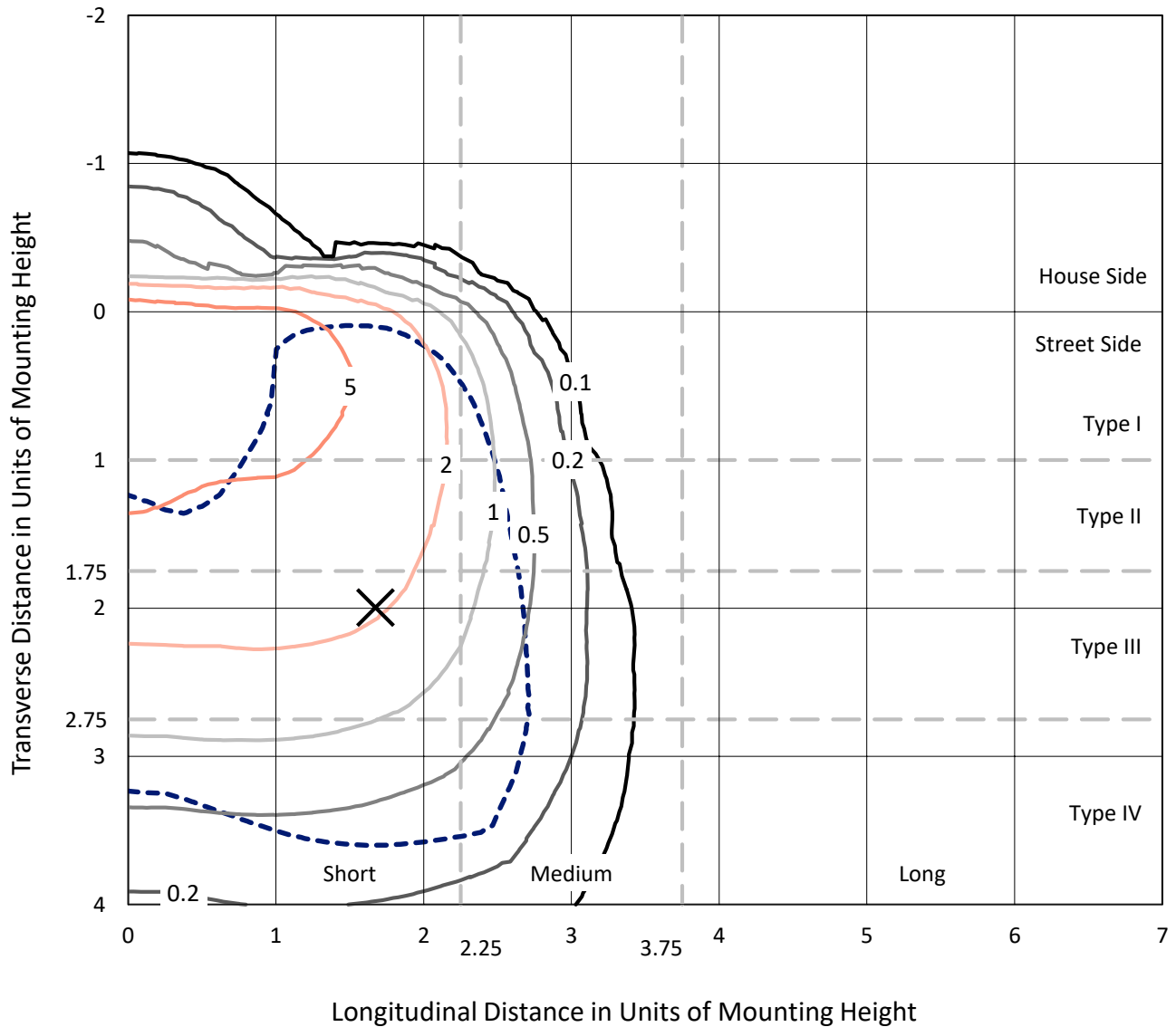
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200305
 CATALOG NUMBER: GPC-AF-01-LED-E1-SL4-7050-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

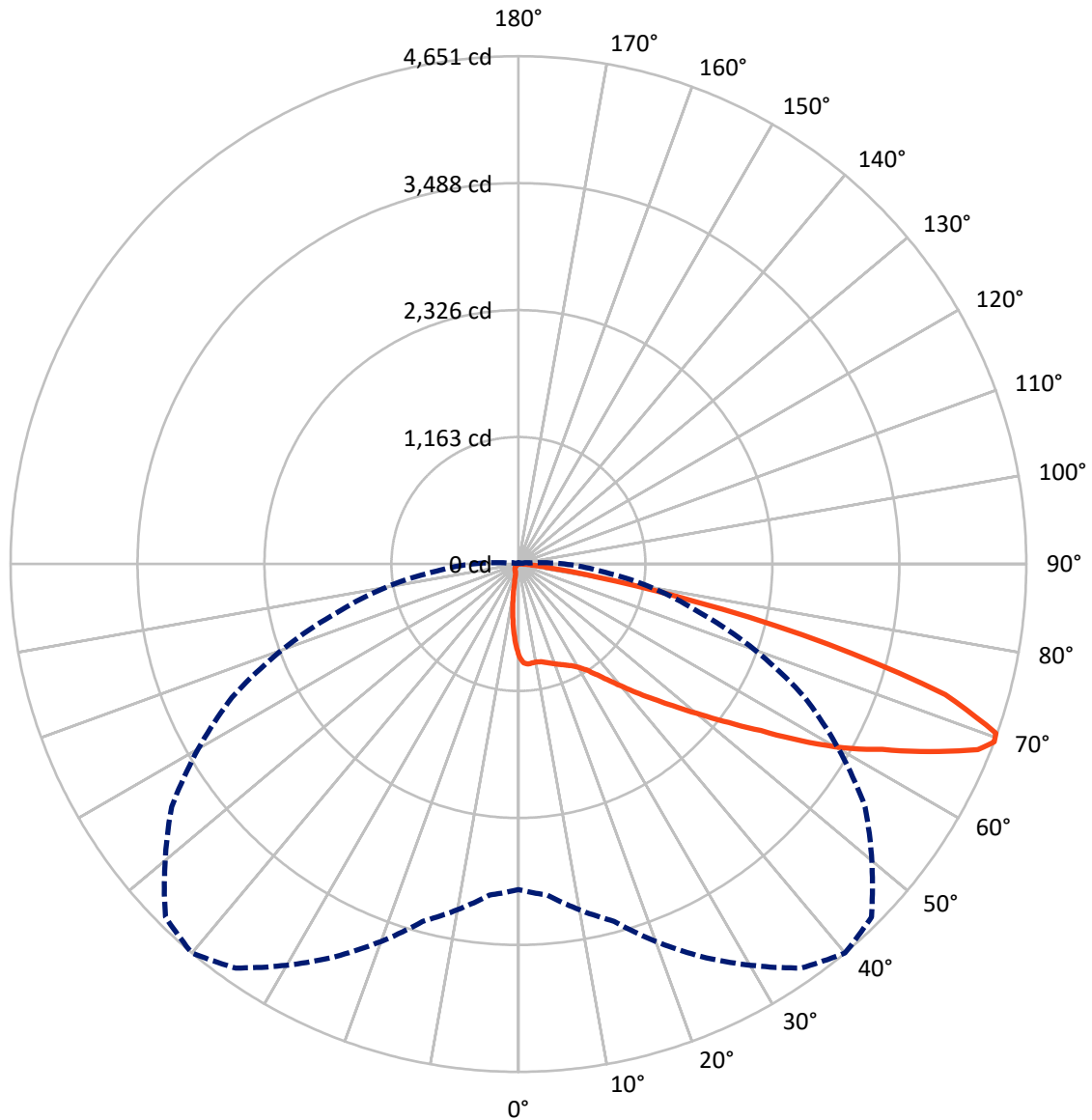
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P200305
CATALOG NUMBER: GPC-AF-01-LED-E1-SL4-7050-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P200305

CATALOG NUMBER: GPC-AF-01-LED-E1-SL4-7050-1200-HSS

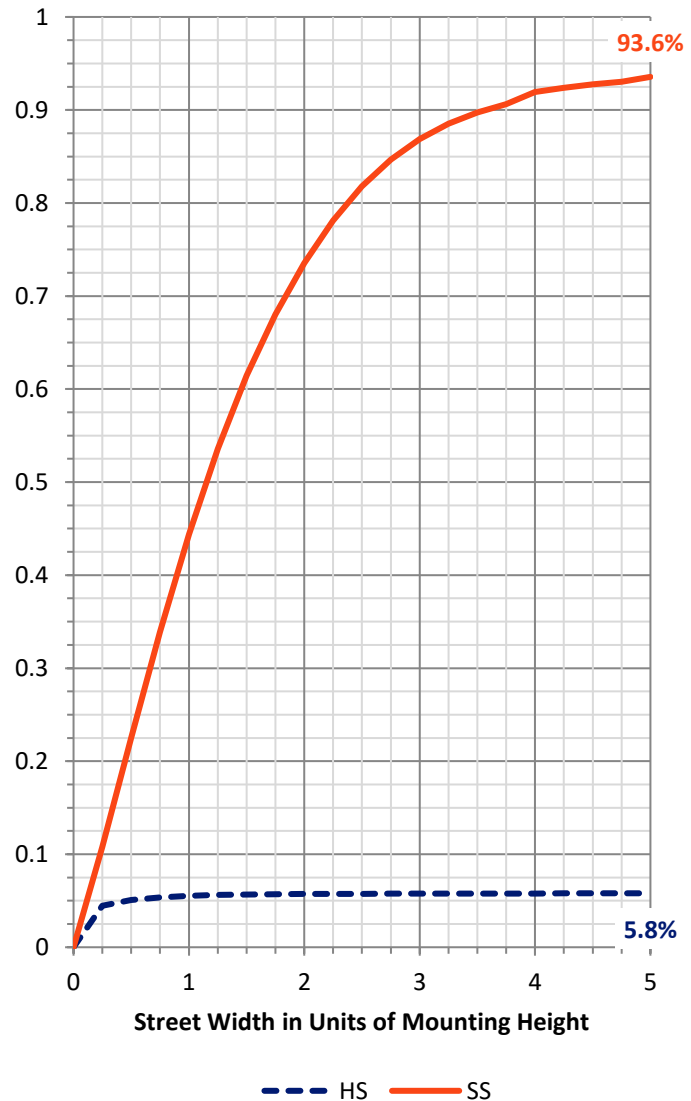
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	331.1	0.0	331.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5328.9	0.0	5328.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	5660.0	0.0	5660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.2
10°-20°	168.6	3.0
20°-30°	284.0	5.0
30°-40°	464.9	8.2
40°-50°	805.0	14.2
50°-60°	1267.9	22.4
60°-70°	1655.9	29.3
70°-80°	852.8	15.1
80°-90°	92.2	1.6
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°	5660.0	100.0
0°-180°	5660.0	100.0

Coefficient of Utilization



REPORT NUMBER: P200305

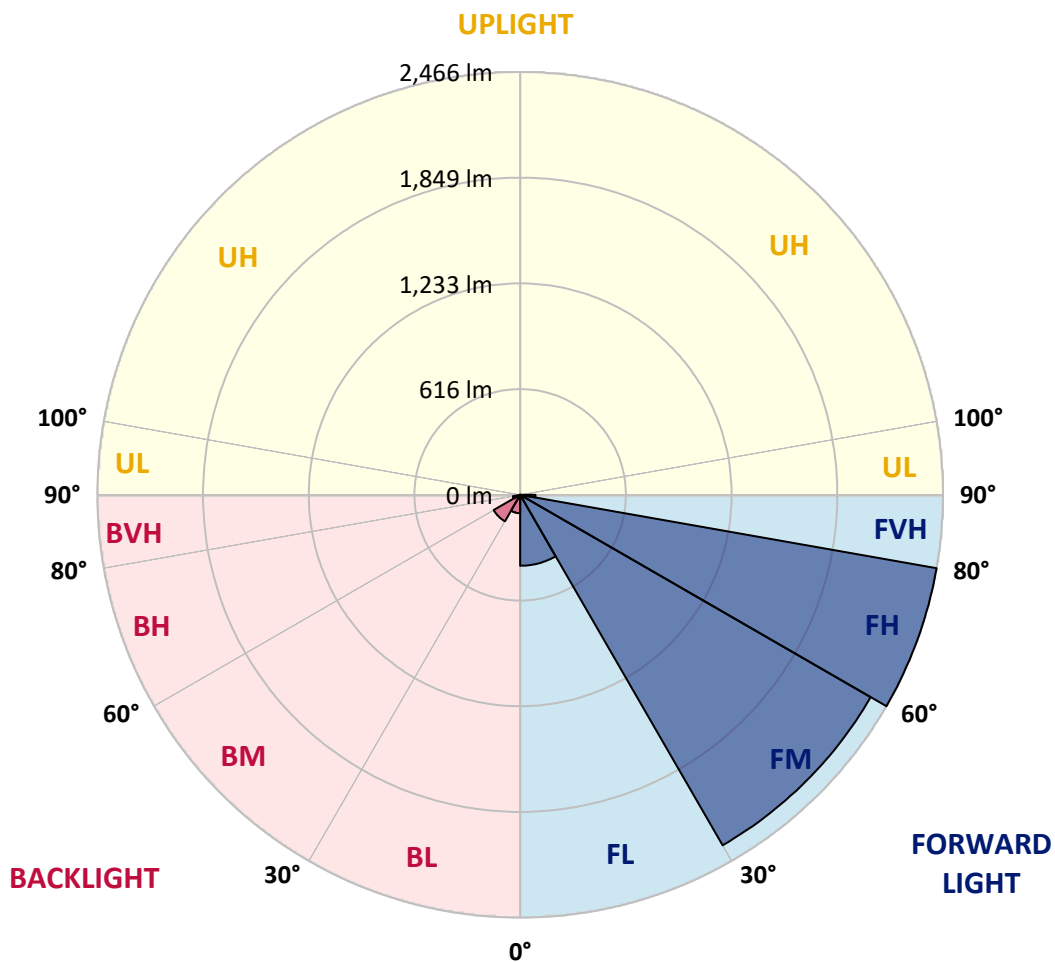
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.9	7.3			
FM	(30°-60°)	2359.9	41.7			
FH	(60°-80°)	2465.7	43.6			G2/5000
FVH	(80°-90°)	89.4	1.6			G1/100
BL	(0°-30°)	107.3	1.9	B0/110		
BM	(30°-60°)	178.0	3.1	B0/220		
BH	(60°-80°)	43.0	0.8	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





REPORT NUMBER: P200305

CATALOG NUMBER: GPC-AF-01-LED-E1-SL4-7050-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6
2.5°	928.5	923.5	920.4	916.4	911.3	906.9	905.3	892.8	881.0	864.8	846.3
5°	945.7	944.0	938.6	933.2	927.2	920.4	916.7	901.9	885.1	861.5	829.1
7.5°	947.4	945.4	938.6	931.2	922.8	914.7	908.3	893.5	878.0	854.1	814.6
10°	944.7	942.3	937.3	929.2	918.7	911.0	904.6	890.4	877.3	855.7	811.9
12.5°	941.7	939.3	936.9	932.9	923.8	918.4	913.0	899.5	887.7	869.6	821.7
15°	944.7	943.3	946.0	944.3	939.3	934.6	929.2	917.1	906.3	891.1	839.6
17.5°	957.5	957.5	965.9	966.9	962.2	955.5	947.7	935.6	926.5	913.7	860.8
20°	987.5	986.5	997.2	999.3	987.8	977.4	965.9	951.1	944.0	935.9	881.7
22.5°	1039.0	1034.3	1040.7	1038.7	1016.1	999.9	985.8	967.6	963.9	960.2	904.9
25°	1106.1	1103.4	1107.7	1087.9	1048.1	1026.2	1009.4	988.8	988.8	992.5	931.2
27.5°	1203.4	1193.3	1178.5	1143.5	1083.8	1055.9	1037.7	1015.8	1021.5	1035.3	965.9
30°	1303.2	1292.0	1258.0	1204.1	1127.3	1098.0	1076.8	1053.8	1067.3	1092.6	1012.4
32.5°	1401.5	1389.1	1340.9	1272.8	1189.6	1160.3	1139.8	1114.5	1137.1	1179.5	1080.5
35°	1496.9	1485.8	1430.2	1350.0	1272.5	1248.2	1229.4	1207.5	1236.4	1295.7	1176.5
37.5°	1604.0	1591.9	1524.2	1437.2	1373.2	1355.7	1341.9	1320.0	1370.5	1457.5	1310.2
40°	1735.7	1715.2	1623.9	1537.3	1489.8	1481.4	1471.9	1468.9	1547.4	1667.7	1488.4
42.5°	1886.7	1853.0	1728.3	1642.8	1617.8	1623.9	1621.5	1635.0	1768.8	1929.1	1705.4
45°	2037.6	1994.1	1844.6	1755.3	1758.6	1779.9	1793.0	1846.9	2046.0	2229.0	1938.9
47.5°	2165.6	2122.8	1956.1	1876.9	1917.3	1959.1	1994.8	2096.9	2331.0	2524.1	2120.5
50°	2275.1	2234.7	2074.3	2010.7	2101.6	2169.0	2226.9	2378.2	2637.6	2748.8	2247.8
52.5°	2364.7	2337.8	2197.0	2163.9	2312.2	2410.9	2495.8	2677.1	2909.2	2931.4	2346.9
55°	2452.0	2432.8	2328.7	2346.2	2559.5	2693.9	2801.4	2994.1	3143.0	3083.7	2441.9
57.5°	2552.4	2534.9	2479.0	2577.3	2884.6	3053.7	3171.0	3275.1	3348.8	3239.3	2531.5
60°	2654.8	2644.7	2646.1	2834.1	3257.9	3420.3	3485.0	3511.9	3551.0	3385.9	2536.6
62.5°	2752.5	2771.7	2837.1	3119.7	3615.3	3740.0	3772.7	3799.3	3753.5	3409.1	2343.5
65°	2917.9	2949.3	3105.3	3502.1	4008.5	4141.9	4175.6	4084.3	3785.5	3108.6	1906.2
67.5°	2998.8	3056.1	3334.4	3858.6	4389.9	4538.1	4525.7	4102.8	3397.0	2370.5	1223.3
69°	2982.0	3042.9	3387.2	3967.7	4516.6	4651.0	4571.8	3876.1	2894.0	1717.2	751.0
70°	2915.2	2976.9	3360.0	3963.7	4532.7	4639.2	4486.2	3596.1	2446.9	1255.6	469.6
72.5°	2434.5	2487.7	2983.0	3582.7	4175.6	4089.0	3753.1	2491.4	1192.3	342.0	105.8
75°	1498.6	1528.2	2140.4	2699.0	3153.8	2931.4	2500.5	1239.5	355.4	96.7	58.6
77.5°	791.7	805.2	1171.8	1590.9	1999.2	1654.2	1281.6	483.5	163.7	60.6	42.5
80°	468.0	478.1	631.0	727.4	865.2	722.7	512.4	296.8	117.2	38.1	37.7
82.5°	267.8	274.2	457.5	404.3	340.9	291.1	255.0	281.3	70.4	25.6	39.1
85°	98.4	99.7	257.4	307.6	202.8	120.6	126.7	233.1	18.9	16.2	30.7
87.5°	45.8	44.8	132.4	188.3	118.6	76.5	98.7	51.2	7.4	10.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P200305

CATALOG NUMBER: GPC-AF-01-LED-E1-SL4-7050-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6
2.5°	835.5	823.1	800.5	777.2	753.7	735.5	717.6	703.5	698.7	690.0	690.7
5°	809.9	787.0	739.8	692.0	642.1	601.0	562.3	531.0	515.8	500.3	500.3
7.5°	787.7	754.3	680.5	602.7	522.2	454.5	393.5	347.7	322.4	302.2	301.9
10°	779.3	734.1	631.0	519.5	407.3	315.0	242.6	196.1	172.2	156.7	156.0
12.5°	783.0	727.0	593.0	442.7	301.9	202.5	140.5	110.5	100.4	95.7	95.7
15°	793.7	725.0	554.9	367.6	213.3	126.7	93.3	85.2	84.6	84.6	84.6
17.5°	806.9	725.7	515.8	294.5	145.2	90.6	80.5	79.5	80.2	80.2	80.2
20°	820.4	726.0	473.7	226.7	102.4	78.8	75.8	75.5	76.1	76.1	76.5
22.5°	836.9	727.7	431.6	169.5	84.6	74.5	72.1	72.1	72.4	72.4	72.1
25°	855.7	731.1	387.8	125.7	77.2	71.4	69.4	69.1	69.4	69.1	68.7
27.5°	879.3	735.8	338.9	98.4	73.8	68.4	66.7	66.7	66.4	66.0	65.7
30°	909.0	741.2	284.0	83.6	70.4	65.7	64.0	63.7	63.3	62.7	62.7
32.5°	954.1	753.0	229.8	75.8	66.7	62.0	60.6	60.6	60.0	59.3	59.0
35°	1023.5	776.2	181.3	71.1	62.7	57.9	56.3	56.3	55.6	55.3	54.9
37.5°	1119.5	811.6	140.8	66.7	58.6	53.6	51.9	51.5	50.9	50.2	49.9
40°	1247.2	855.4	110.8	62.7	54.6	49.2	47.8	47.2	45.8	44.8	44.8
42.5°	1407.6	905.3	90.0	58.3	49.9	45.1	44.1	43.1	40.8	39.8	39.4
45°	1575.4	950.1	76.1	53.2	45.1	41.1	40.4	38.7	35.7	34.7	34.7
47.5°	1696.3	960.5	67.0	48.5	40.8	36.7	36.4	33.4	30.7	30.0	29.6
50°	1771.8	940.0	59.6	43.8	36.7	32.7	31.7	28.0	26.3	25.6	25.3
52.5°	1822.7	903.2	53.6	39.8	33.0	29.0	26.6	23.9	22.6	21.9	21.9
55°	1863.4	851.4	47.5	36.0	30.0	25.9	22.6	20.6	19.2	18.5	18.5
57.5°	1874.9	780.9	41.4	33.0	27.0	22.9	19.2	17.9	16.2	15.8	15.8
60°	1791.7	653.9	36.7	29.3	24.3	19.9	16.8	15.2	13.5	13.1	12.8
62.5°	1572.3	506.0	32.3	25.9	21.2	17.2	14.5	12.5	11.1	11.1	11.1
65°	1199.4	339.3	28.3	22.6	18.5	14.5	12.5	10.1	9.4	9.4	9.8
67.5°	717.9	184.6	24.3	19.2	15.8	12.1	10.4	8.8	8.4	8.8	8.8
69°	420.8	108.5	21.9	17.2	13.8	10.8	9.1	7.7	8.4	8.8	8.8
70°	259.8	73.1	20.2	15.5	12.5	9.8	8.4	7.4	8.1	8.4	8.4
72.5°	72.4	37.7	16.2	12.1	10.1	8.1	6.7	6.7	7.7	8.1	8.1
75°	47.2	28.0	12.5	9.1	7.7	6.4	5.7	6.4	7.4	7.7	7.7
77.5°	39.1	22.9	10.1	7.4	6.4	6.1	5.4	5.7	6.7	7.1	7.1
80°	35.7	16.2	8.1	6.7	5.7	5.4	5.1	4.7	6.1	6.4	6.4
82.5°	34.0	12.8	7.1	6.1	5.4	4.7	4.4	4.7	5.4	5.7	6.1
85°	21.2	8.4	6.4	5.7	4.7	4.4	4.4	4.4	5.1	5.4	5.4
87.5°	7.7	6.7	5.7	4.7	4.0	4.0	4.0	4.0	4.4	5.1	5.1
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)