

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: P200243

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200243  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
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-AFL-7050-600-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3428 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B0 - U0 - G0

Input Watts (W): 34  
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

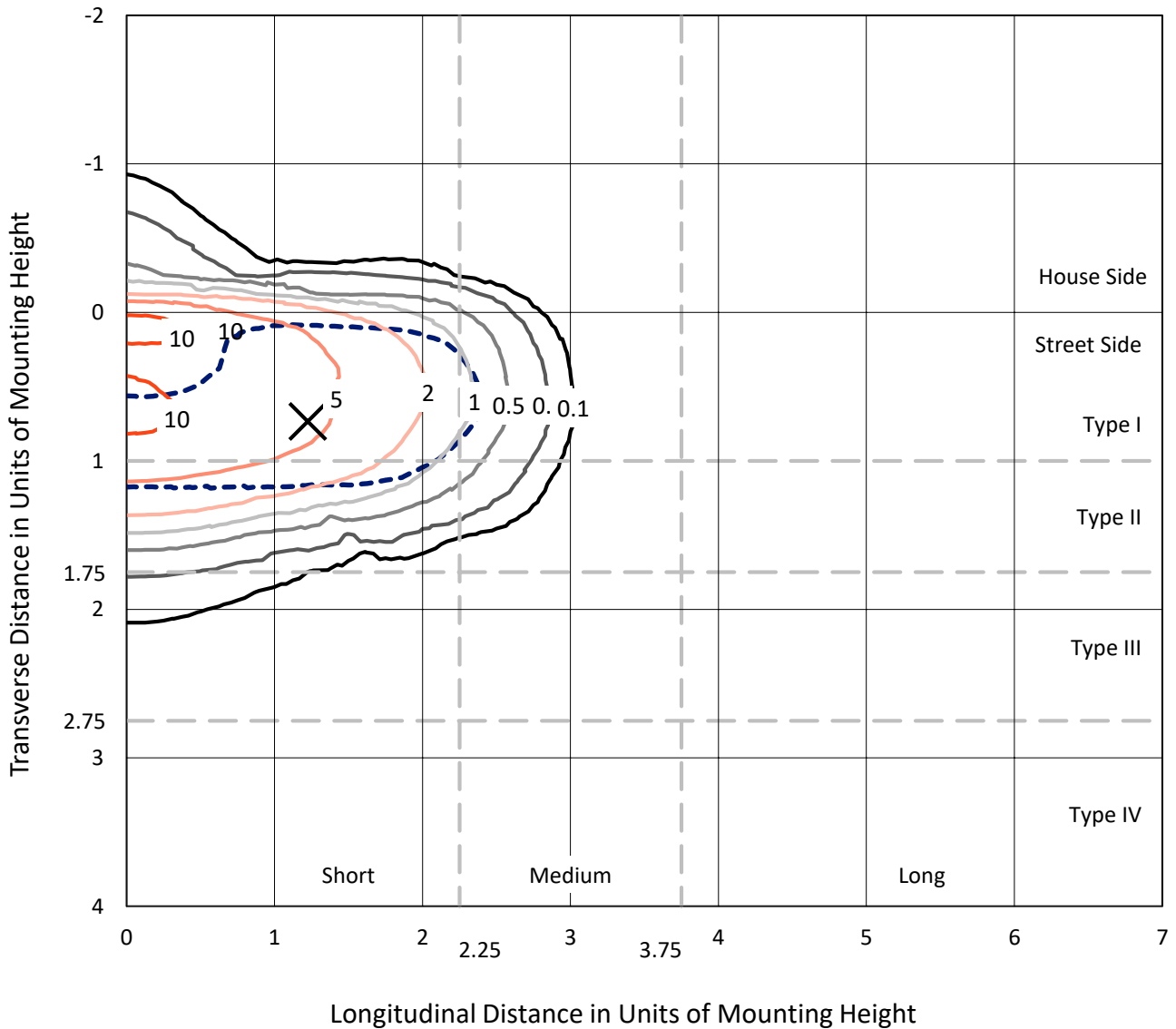


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

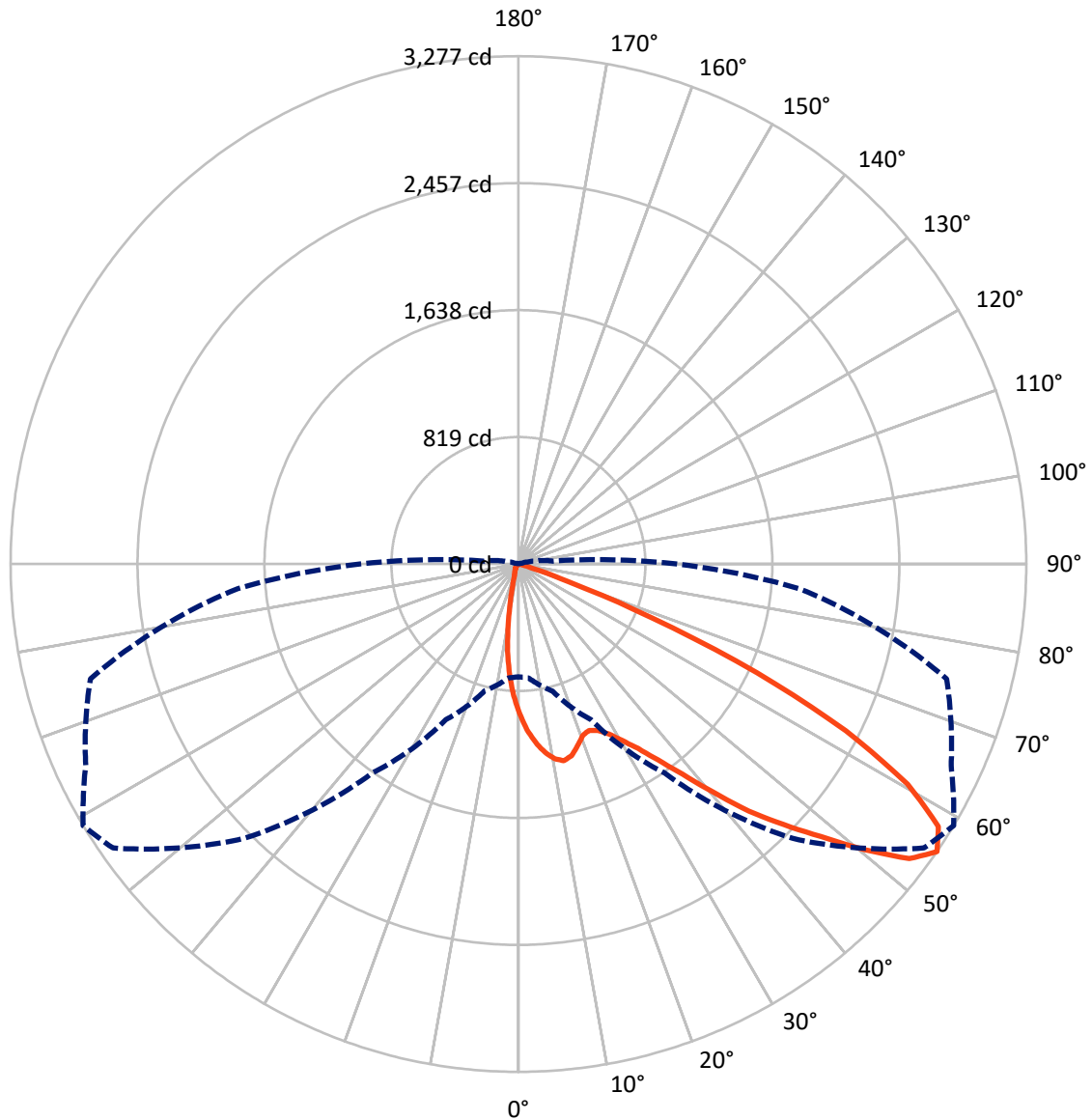


Based on 10 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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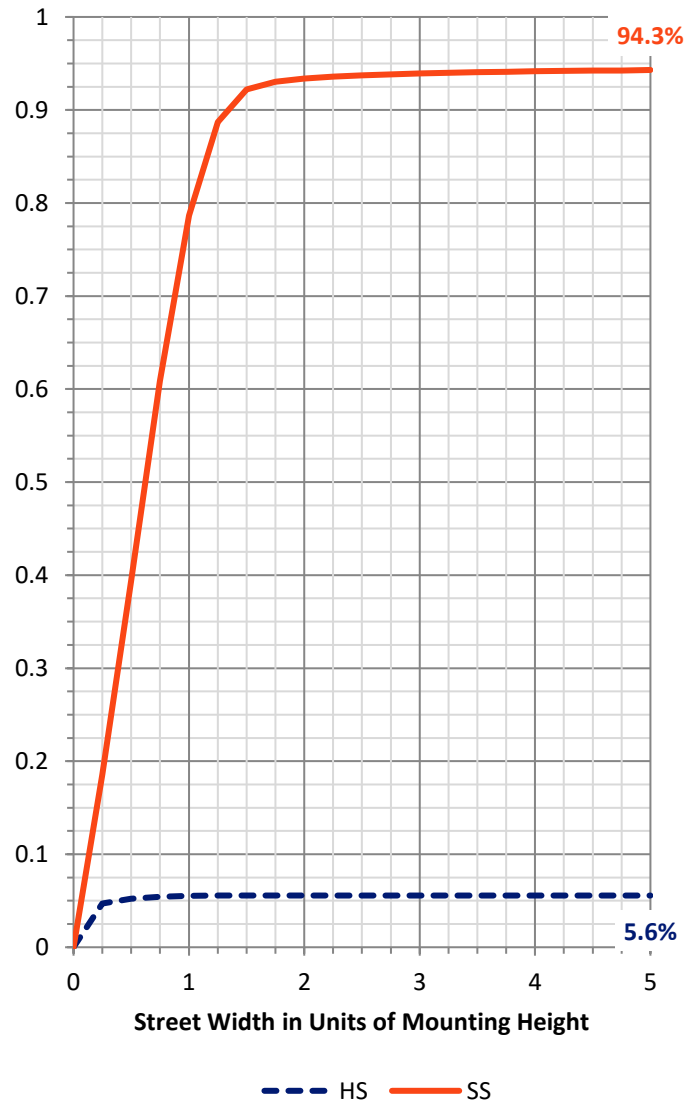
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	191.5	0.0	191.5
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	3236.5	0.0	3236.5
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	3428.0	0.0	3428.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	2.4
10°-20°	193.5	5.6
20°-30°	329.3	9.6
30°-40°	566.3	16.5
40°-50°	874.3	25.5
50°-60°	879.0	25.6
60°-70°	450.8	13.1
70°-80°	48.8	1.4
80°-90°	5.1	0.1
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°	3428.0	100.0
0°-180°	3428.0	100.0



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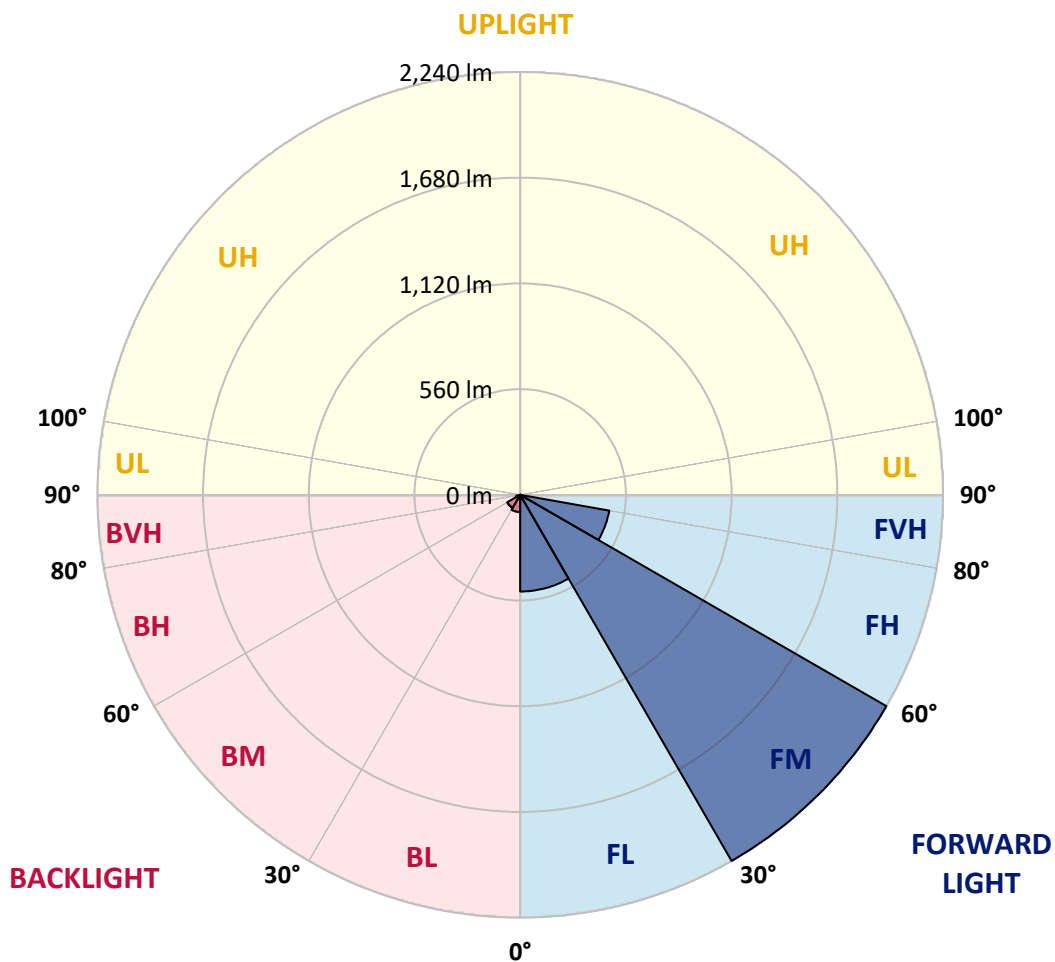
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	512.3	14.9			
FM	(30°-60°)	2240.2	65.3			
FH	(60°-80°)	479.1	14.0			G0/660
FVH	(80°-90°)	5.0	0.1			G0/10
BL	(0°-30°)	91.4	2.7	B0/110		
BM	(30°-60°)	79.5	2.3	B0/220		
BH	(60°-80°)	20.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0
2.5°	1141.8	1129.6	1126.0	1123.6	1112.4	1098.5	1079.5	1070.6	1052.4	1023.0	987.0
5°	1246.4	1244.1	1236.1	1231.6	1219.7	1199.8	1169.5	1154.9	1126.0	1076.6	1012.1
7.5°	1200.6	1214.6	1225.7	1244.3	1267.8	1267.0	1241.5	1226.3	1194.0	1128.8	1040.0
10°	1024.0	1035.4	1053.6	1095.9	1182.0	1258.1	1288.0	1277.1	1251.2	1176.8	1066.9
12.5°	989.4	988.2	991.5	1003.8	1048.9	1157.4	1280.2	1302.2	1296.9	1220.7	1092.4
15°	1007.9	1006.4	1006.0	1010.3	1021.2	1066.9	1220.9	1284.2	1324.9	1261.3	1114.1
17.5°	1059.4	1053.4	1050.1	1046.7	1043.5	1054.8	1149.7	1233.8	1329.1	1296.9	1132.1
20°	1147.8	1137.7	1125.8	1106.4	1088.2	1082.5	1119.7	1182.0	1313.9	1324.1	1143.8
22.5°	1258.9	1246.0	1225.3	1189.9	1152.9	1131.5	1134.5	1165.7	1291.3	1353.6	1149.3
25°	1383.7	1367.1	1339.6	1290.5	1236.1	1198.0	1178.2	1189.1	1281.0	1388.2	1155.5
27.5°	1517.5	1499.0	1463.0	1396.1	1334.4	1283.0	1242.5	1241.1	1298.6	1433.5	1165.7
30°	1650.0	1647.1	1600.2	1529.4	1447.7	1385.1	1326.9	1319.4	1347.7	1496.2	1185.7
32.5°	1826.8	1805.5	1748.1	1675.2	1581.0	1505.9	1436.9	1419.5	1423.2	1569.2	1216.6
35°	2049.7	2026.4	1945.5	1845.0	1739.6	1651.0	1574.7	1551.0	1542.1	1688.8	1268.8
37.5°	2193.7	2193.3	2142.6	2040.2	1927.1	1829.4	1746.5	1718.7	1700.7	1833.2	1349.7
40°	2197.6	2207.1	2213.8	2212.8	2132.2	2042.2	1968.6	1934.4	1892.5	2026.2	1454.3
42.5°	2079.6	2104.1	2163.0	2262.9	2310.7	2274.9	2212.8	2179.2	2116.9	2232.8	1581.8
45°	1920.2	1937.2	2040.2	2224.3	2407.4	2505.5	2458.1	2398.1	2315.9	2448.2	1696.1
47.5°	1848.8	1851.9	1918.4	2120.5	2414.6	2694.4	2723.2	2625.4	2496.8	2621.8	1785.5
50°	1635.4	1640.9	1732.7	1940.7	2329.3	2783.6	2989.4	2896.7	2694.0	2755.5	1818.1
52.5°	1232.6	1240.3	1356.8	1645.1	2094.6	2745.6	3179.9	3157.5	2910.1	2820.9	1819.9
55°	727.3	737.4	848.6	1107.4	1647.5	2503.7	3194.1	3276.6	3080.6	2859.5	1817.1
57.5°	339.7	346.7	410.5	570.5	1024.6	1978.7	2980.9	3194.9	3174.7	2879.9	1837.1
60°	180.5	182.5	197.8	247.0	463.1	1254.7	2564.8	2885.0	3088.9	2908.3	1861.6
62.5°	138.0	138.6	137.8	143.6	194.6	556.9	1938.6	2371.8	2743.6	2887.0	1834.5
65°	119.6	120.6	114.9	113.5	124.8	198.7	1151.7	1690.6	2155.9	2600.4	1649.8
67.5°	107.2	107.6	100.7	94.9	96.9	107.4	454.4	925.5	1427.0	1906.1	1195.8
70°	98.7	98.3	90.8	81.5	78.9	73.4	144.4	339.3	682.0	966.6	556.1
72.5°	87.4	87.6	84.0	71.8	65.5	51.4	67.0	98.9	203.5	263.4	130.3
75°	77.5	76.5	72.0	64.3	54.0	33.8	33.2	44.1	62.7	62.3	28.1
77.5°	56.0	55.0	56.4	52.8	41.5	21.8	16.6	21.2	25.5	24.7	7.9
80°	41.1	40.5	36.4	43.9	36.6	15.0	10.3	11.3	13.1	11.1	2.4
82.5°	28.1	27.9	25.7	24.3	20.8	9.1	6.5	7.1	8.5	6.3	1.2
85°	4.5	5.1	18.6	14.8	12.3	4.0	4.5	4.9	5.7	3.4	0.4
87.5°	0.0	0.0	8.7	7.7	2.4	1.6	2.6	2.8	2.8	1.8	0.0
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°	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0
2.5°	968.6	948.4	911.0	872.3	836.5	793.8	764.5	742.4	717.0	710.1	725.0
5°	975.3	937.1	856.5	768.9	686.6	595.4	525.6	470.3	420.4	403.4	418.8
7.5°	985.8	929.0	797.7	653.4	510.2	367.8	270.3	206.1	165.3	153.1	159.6
10°	996.3	917.2	729.5	516.7	320.8	179.0	116.5	93.1	84.4	82.5	83.5
12.5°	1005.0	901.4	646.3	367.4	171.6	95.9	76.3	72.4	71.2	71.2	71.6
15°	1010.3	877.6	547.8	233.7	98.7	72.4	66.6	65.3	65.3	65.5	65.9
17.5°	1009.7	847.2	440.0	141.4	73.8	64.1	60.7	59.7	59.5	59.9	60.1
20°	1002.2	807.6	331.8	93.3	64.3	58.5	55.0	53.2	53.0	53.4	53.8
22.5°	988.0	758.6	237.3	71.8	58.1	53.0	48.8	47.1	47.1	47.5	47.9
25°	970.8	698.7	162.2	60.9	52.4	47.1	43.1	41.7	42.1	43.1	43.3
27.5°	949.4	631.4	110.3	52.2	45.5	41.3	38.2	37.2	38.2	39.7	40.1
30°	931.0	561.2	78.7	45.1	38.6	35.6	33.8	33.8	35.2	37.8	38.4
32.5°	916.8	493.2	60.7	39.9	33.6	31.0	29.9	31.0	33.2	35.8	36.4
35°	915.0	437.2	51.4	35.6	29.9	27.3	26.9	28.7	31.0	33.0	33.4
37.5°	929.0	385.4	46.3	32.2	26.7	24.3	23.9	26.1	28.3	30.7	31.4
40°	955.5	344.7	42.7	28.9	24.1	21.4	20.6	22.3	25.3	28.5	29.3
42.5°	989.9	311.1	38.6	25.7	21.4	17.8	16.8	18.6	21.8	25.3	26.3
45°	1022.6	282.2	34.2	22.1	18.0	13.8	13.4	15.8	17.4	20.8	21.6
47.5°	1040.6	256.7	30.3	18.0	14.0	11.1	11.1	11.7	13.4	17.4	18.2
50°	1034.6	236.3	26.3	13.4	9.7	8.5	8.5	8.3	10.7	14.0	14.6
52.5°	1022.4	224.6	22.7	10.3	6.7	6.1	5.5	6.1	7.5	8.9	9.1
55°	1020.6	222.5	19.0	8.3	4.7	4.0	3.0	3.0	3.0	2.8	2.4
57.5°	1034.8	225.8	16.0	6.7	3.4	2.6	1.6	0.0	0.0	0.0	0.0
60°	1049.3	229.2	13.8	4.7	2.4	1.4	0.2	0.0	0.0	0.0	0.0
62.5°	1025.1	221.5	11.5	2.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0
65°	900.4	188.5	9.1	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	640.5	126.2	6.1	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	292.3	52.8	3.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	62.5	16.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.7	11.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.4	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)