

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: P200245

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200245
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-7050-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 800mA 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: 4204 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G0

Input Watts (W): 44
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

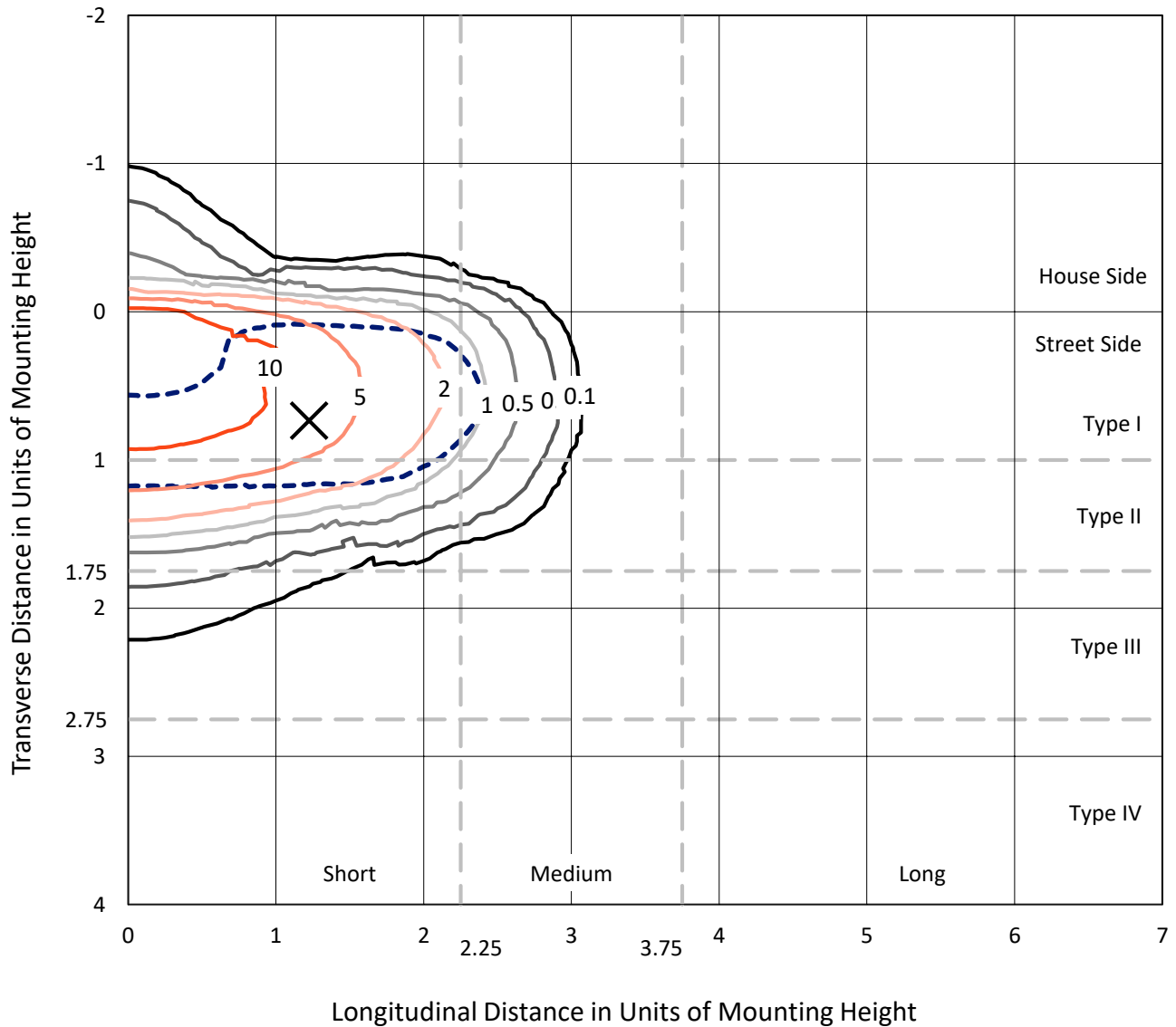


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

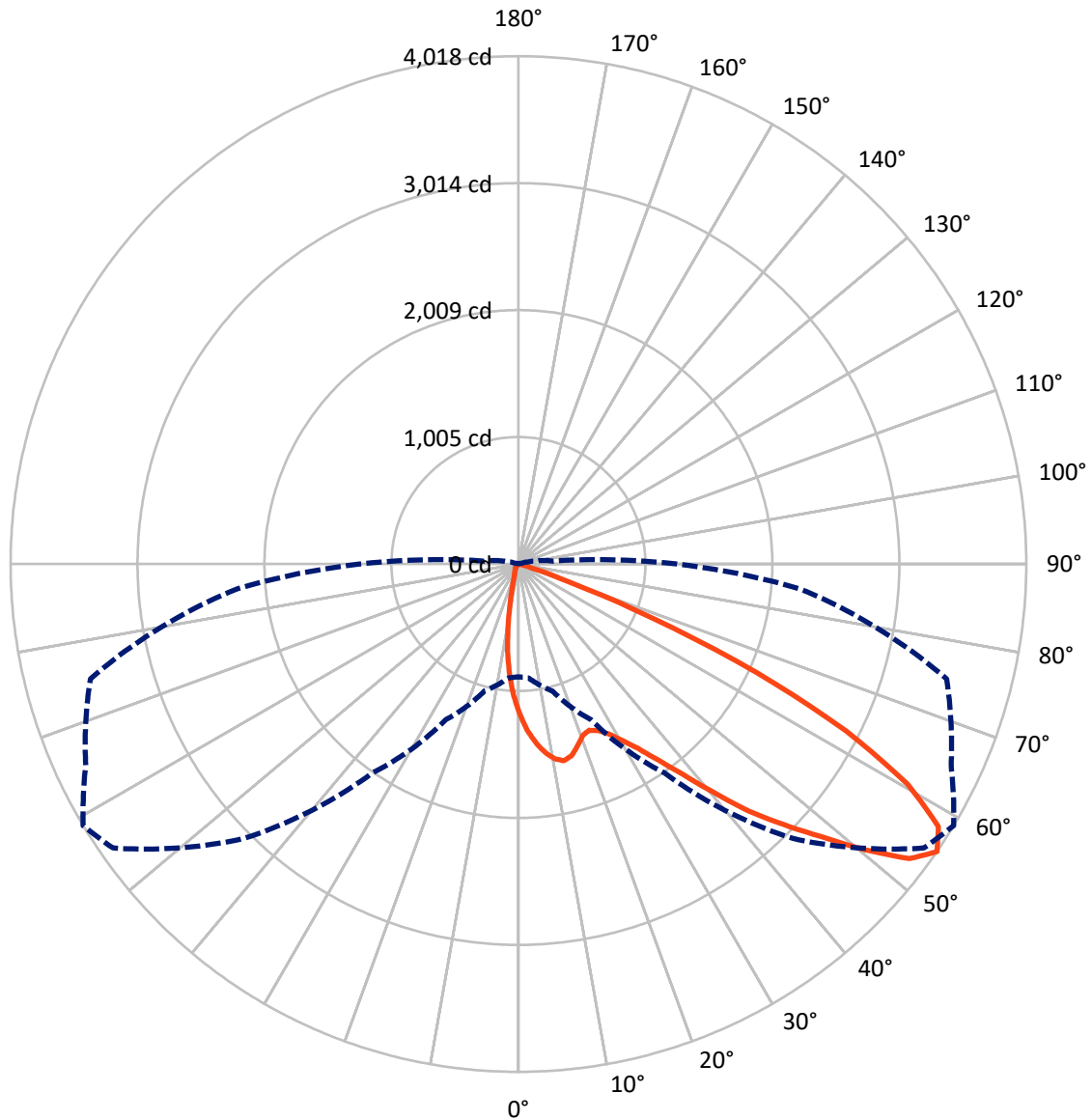


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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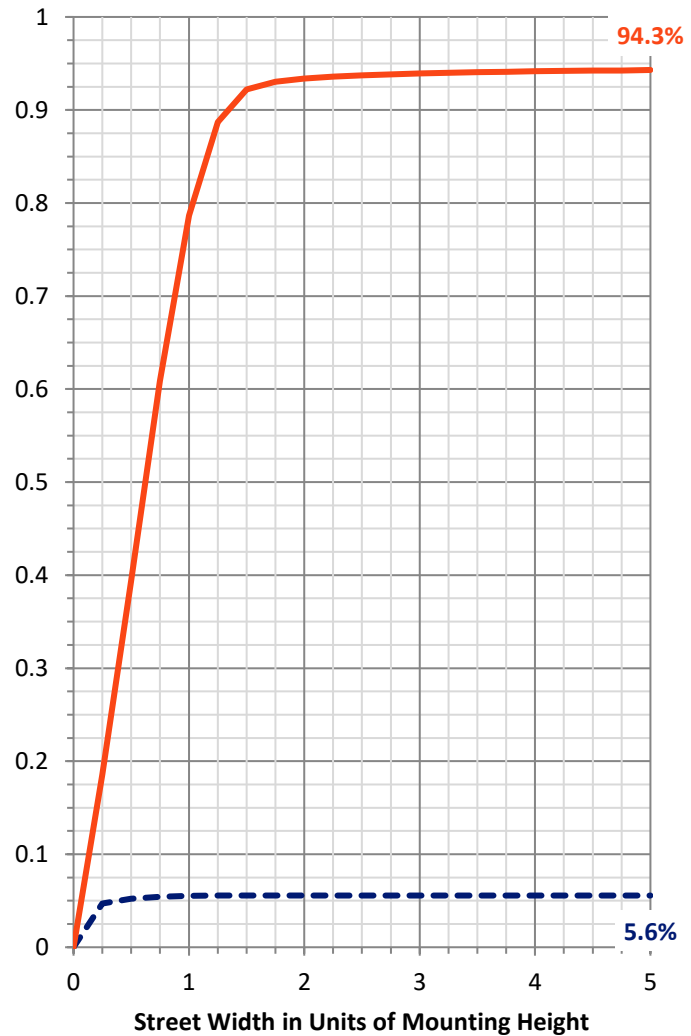
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	234.8	0.0	234.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3969.2	0.0	3969.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	4204.0	0.0	4204.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	2.4
10°-20°	237.3	5.6
20°-30°	403.8	9.6
30°-40°	694.5	16.5
40°-50°	1072.3	25.5
50°-60°	1078.0	25.6
60°-70°	552.8	13.1
70°-80°	59.9	1.4
80°-90°	6.3	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°	4204.0	100.0
0°-180°	4204.0	100.0



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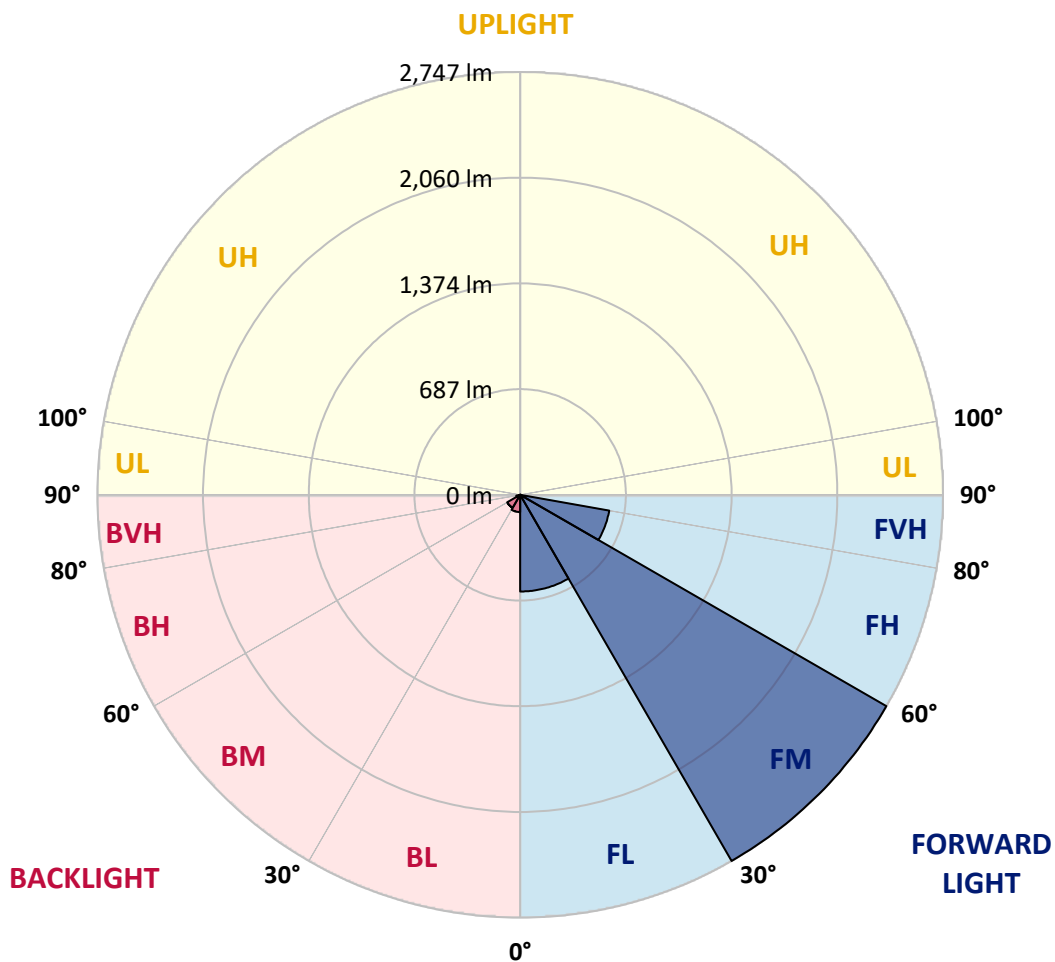
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.2	14.9			
FM (30°-60°)	2747.3	65.3			
FH (60°-80°)	587.5	14.0			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	112.1	2.7	B1/500		
BM (30°-60°)	97.5	2.3	B0/220		
BH (60°-80°)	25.2	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: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1400.2	1385.4	1380.9	1377.9	1364.3	1347.2	1323.8	1312.9	1290.6	1254.6	1210.5
5°	1528.5	1525.8	1515.9	1510.4	1495.8	1471.4	1434.2	1416.4	1380.9	1320.4	1241.2
7.5°	1472.4	1489.6	1503.2	1526.0	1554.8	1553.8	1522.6	1503.9	1464.3	1384.4	1275.5
10°	1255.9	1269.7	1292.1	1343.9	1449.6	1542.9	1579.6	1566.2	1534.5	1443.2	1308.5
12.5°	1213.4	1211.9	1215.9	1231.0	1286.4	1419.3	1569.9	1597.0	1590.5	1497.0	1339.7
15°	1236.0	1234.3	1233.8	1239.0	1252.4	1308.5	1497.3	1574.9	1624.8	1546.9	1366.3
17.5°	1299.3	1291.8	1287.9	1283.6	1279.7	1293.6	1409.9	1513.1	1630.0	1590.5	1388.3
20°	1407.7	1395.3	1380.6	1356.8	1334.5	1327.6	1373.2	1449.6	1611.4	1623.8	1402.7
22.5°	1543.9	1528.0	1502.7	1459.3	1413.9	1387.6	1391.3	1429.5	1583.6	1660.0	1409.4
25°	1697.0	1676.6	1642.9	1582.6	1515.9	1469.2	1444.9	1458.3	1570.9	1702.4	1417.1
27.5°	1861.0	1838.4	1794.2	1712.1	1636.4	1573.4	1523.8	1522.1	1592.5	1758.0	1429.5
30°	2023.5	2020.0	1962.4	1875.6	1775.4	1698.7	1627.3	1618.1	1652.8	1834.9	1454.1
32.5°	2240.3	2214.2	2143.8	2054.5	1938.9	1846.8	1762.2	1740.9	1745.3	1924.5	1492.0
35°	2513.7	2485.2	2385.9	2262.6	2133.4	2024.7	1931.2	1902.1	1891.2	2071.1	1556.0
37.5°	2690.3	2689.8	2627.6	2502.0	2363.3	2243.5	2141.8	2107.8	2085.7	2248.2	1655.3
40°	2695.1	2706.7	2714.9	2713.7	2614.9	2504.5	2414.2	2372.3	2320.9	2484.9	1783.6
42.5°	2550.4	2580.4	2652.6	2775.2	2833.7	2789.8	2713.7	2672.5	2596.1	2738.2	1939.9
45°	2354.9	2375.8	2502.0	2727.8	2952.3	3072.7	3014.6	2940.9	2840.2	3002.4	2080.0
47.5°	2267.3	2271.1	2352.7	2600.5	2961.3	3304.4	3339.6	3219.8	3062.0	3215.3	2189.7
50°	2005.6	2012.3	2124.9	2380.0	2856.6	3413.8	3666.1	3552.5	3303.9	3379.3	2229.6
52.5°	1511.6	1521.1	1664.0	2017.5	2568.8	3367.1	3899.8	3872.3	3568.8	3459.4	2231.9
55°	891.9	904.3	1040.8	1358.1	2020.5	3070.4	3917.2	4018.4	3778.0	3506.8	2228.4
57.5°	416.6	425.2	503.4	699.6	1256.6	2426.6	3655.7	3918.2	3893.3	3531.9	2252.9
60°	221.3	223.8	242.6	302.9	567.9	1538.7	3145.3	3538.1	3788.2	3566.6	2283.0
62.5°	169.2	169.9	169.0	176.1	238.7	683.0	2377.5	2908.7	3364.7	3540.6	2249.7
65°	146.6	147.9	140.9	139.2	153.1	243.6	1412.4	2073.3	2643.9	3189.0	2023.2
67.5°	131.5	132.0	123.6	116.4	118.8	131.7	557.2	1135.0	1750.1	2337.5	1466.5
70°	121.1	120.6	111.4	100.0	96.8	90.1	177.1	416.1	836.3	1185.4	682.0
72.5°	107.2	107.4	103.0	88.1	80.4	63.0	82.1	121.3	249.6	323.0	159.8
75°	95.0	93.8	88.3	78.9	66.2	41.4	40.7	54.1	76.9	76.4	34.5
77.5°	68.7	67.5	69.2	64.8	50.9	26.8	20.3	26.0	31.3	30.3	9.7
80°	50.4	49.6	44.7	53.8	44.9	18.4	12.7	13.9	16.1	13.6	3.0
82.5°	34.5	34.2	31.5	29.8	25.6	11.2	7.9	8.7	10.4	7.7	1.5
85°	5.5	6.2	22.8	18.1	15.1	5.0	5.5	6.0	6.9	4.2	0.5
87.5°	0.0	0.0	10.7	9.4	3.0	2.0	3.2	3.5	3.5	2.2	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°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1187.9	1163.1	1117.2	1069.8	1025.9	973.5	937.5	910.5	879.2	870.8	889.2
5°	1196.1	1149.2	1050.4	943.0	842.0	730.1	644.5	576.8	515.5	494.7	513.6
7.5°	1209.0	1139.2	978.2	801.3	625.7	451.0	331.5	252.8	202.7	187.8	195.7
10°	1221.9	1124.9	894.6	633.6	393.5	219.6	142.9	114.1	103.5	101.2	102.5
12.5°	1232.5	1105.5	792.7	450.5	210.4	117.6	93.5	88.8	87.3	87.3	87.8
15°	1239.0	1076.2	671.8	286.5	121.1	88.8	81.6	80.1	80.1	80.4	80.9
17.5°	1238.2	1039.0	539.6	173.4	90.6	78.6	74.4	73.2	72.9	73.4	73.7
20°	1229.1	990.4	406.9	114.4	78.9	71.7	67.5	65.2	65.0	65.5	66.0
22.5°	1211.7	930.4	291.0	88.1	71.2	65.0	59.8	57.8	57.8	58.3	58.8
25°	1190.6	856.9	199.0	74.7	64.3	57.8	52.8	51.1	51.6	52.8	53.1
27.5°	1164.3	774.3	135.2	64.0	55.8	50.6	46.9	45.6	46.9	48.6	49.1
30°	1141.7	688.2	96.5	55.3	47.4	43.7	41.4	41.4	43.2	46.4	47.1
32.5°	1124.4	604.9	74.4	48.9	41.2	38.0	36.7	38.0	40.7	43.9	44.7
35°	1122.1	536.1	63.0	43.7	36.7	33.5	33.0	35.2	38.0	40.4	40.9
37.5°	1139.2	472.6	56.8	39.4	32.7	29.8	29.3	32.0	34.7	37.7	38.5
40°	1171.8	422.8	52.3	35.5	29.5	26.3	25.3	27.3	31.0	35.0	36.0
42.5°	1213.9	381.6	47.4	31.5	26.3	21.8	20.6	22.8	26.8	31.0	32.3
45°	1254.1	346.1	41.9	27.0	22.1	16.9	16.4	19.4	21.3	25.6	26.5
47.5°	1276.2	314.8	37.2	22.1	17.1	13.6	13.6	14.4	16.4	21.3	22.3
50°	1268.8	289.8	32.3	16.4	11.9	10.4	10.4	10.2	13.1	17.1	17.9
52.5°	1253.9	275.4	27.8	12.7	8.2	7.4	6.7	7.4	9.2	10.9	11.2
55°	1251.6	272.9	23.3	10.2	5.7	5.0	3.7	3.7	3.7	3.5	3.0
57.5°	1269.0	276.9	19.6	8.2	4.2	3.2	2.0	0.0	0.0	0.0	0.0
60°	1286.9	281.1	16.9	5.7	3.0	1.7	0.2	0.0	0.0	0.0	0.0
62.5°	1257.1	271.7	14.1	3.5	2.2	0.7	0.0	0.0	0.0	0.0	0.0
65°	1104.3	231.2	11.2	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	785.5	154.8	7.4	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	358.5	64.8	4.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	76.7	20.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.6	14.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.0	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.5	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)