

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: P270027

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5889.9 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

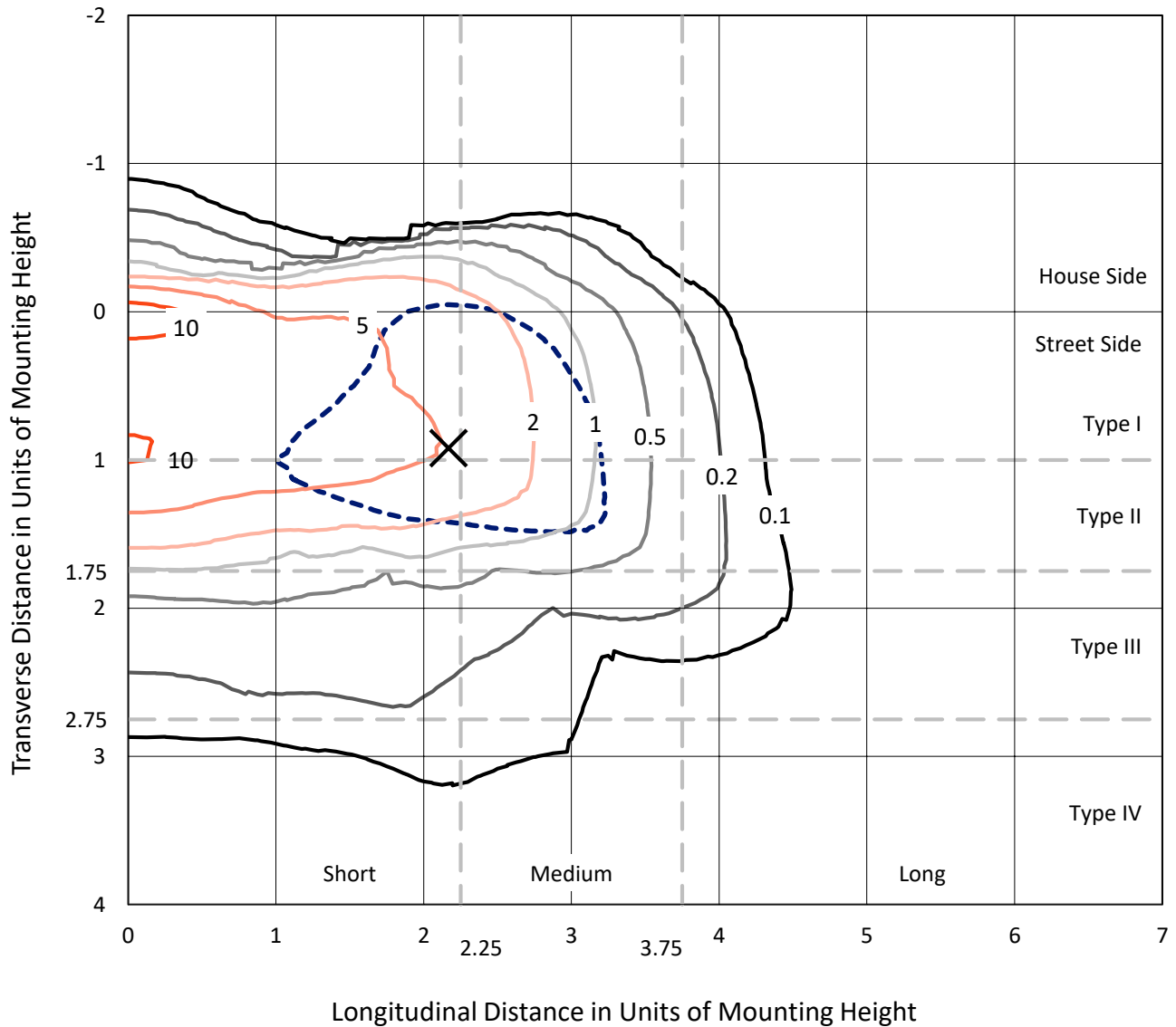


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

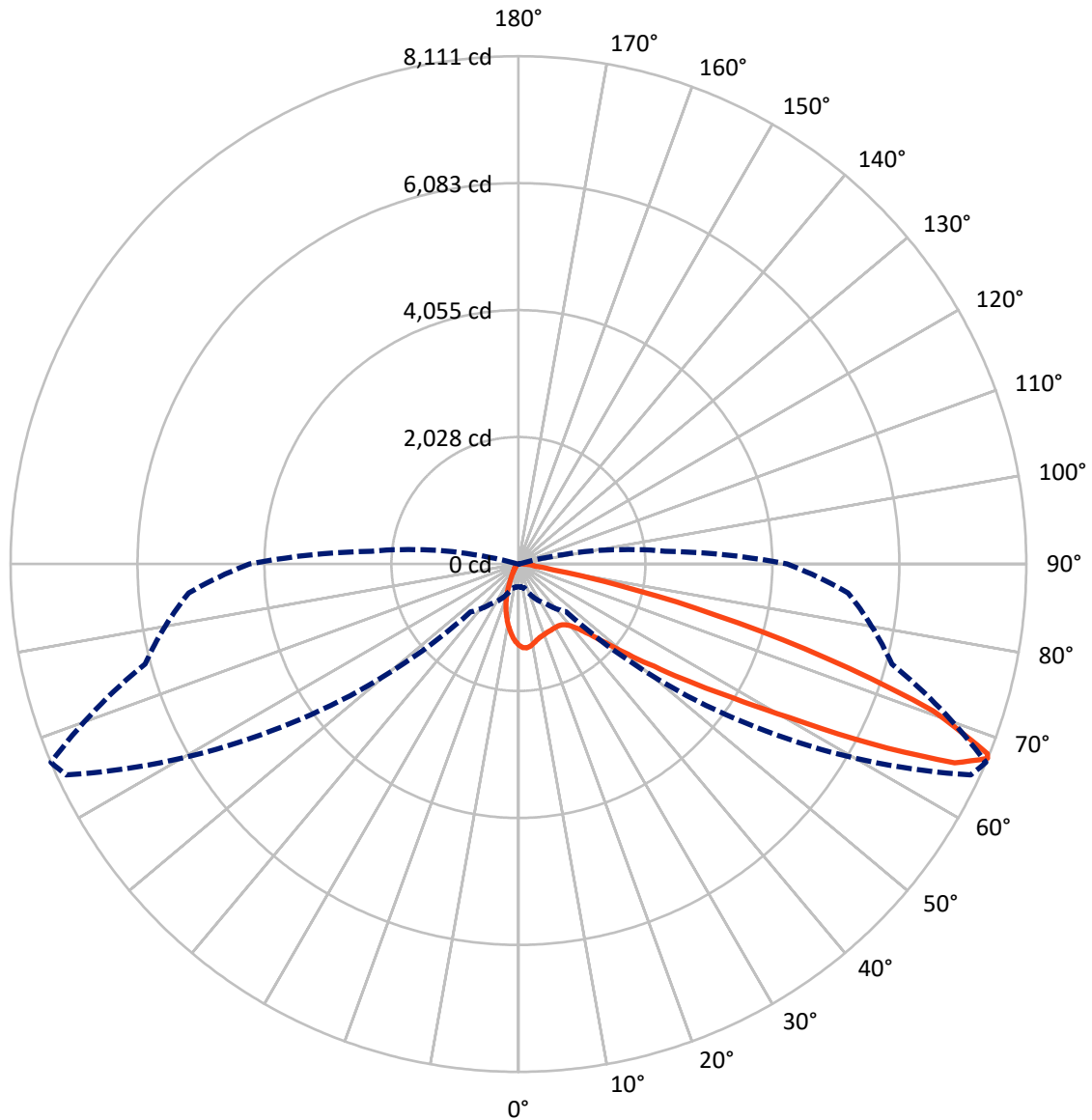


Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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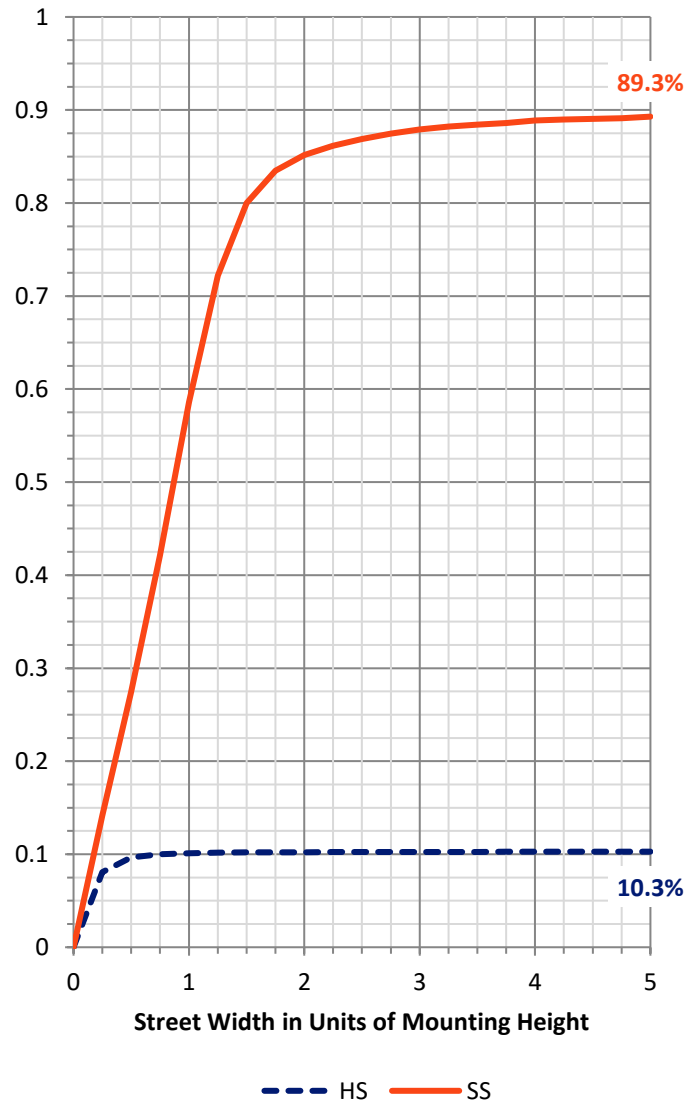
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	611.6	0.0	611.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5278.3	0.0	5278.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	5889.9	0.0	5889.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.8
10°-20°	225.0	3.8
20°-30°	327.1	5.6
30°-40°	510.2	8.7
40°-50°	903.9	15.3
50°-60°	1430.3	24.3
60°-70°	1638.2	27.8
70°-80°	679.5	11.5
80°-90°	70.2	1.2
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°	5889.9	100.0
0°-180°	5889.9	100.0

Coefficient of Utilization



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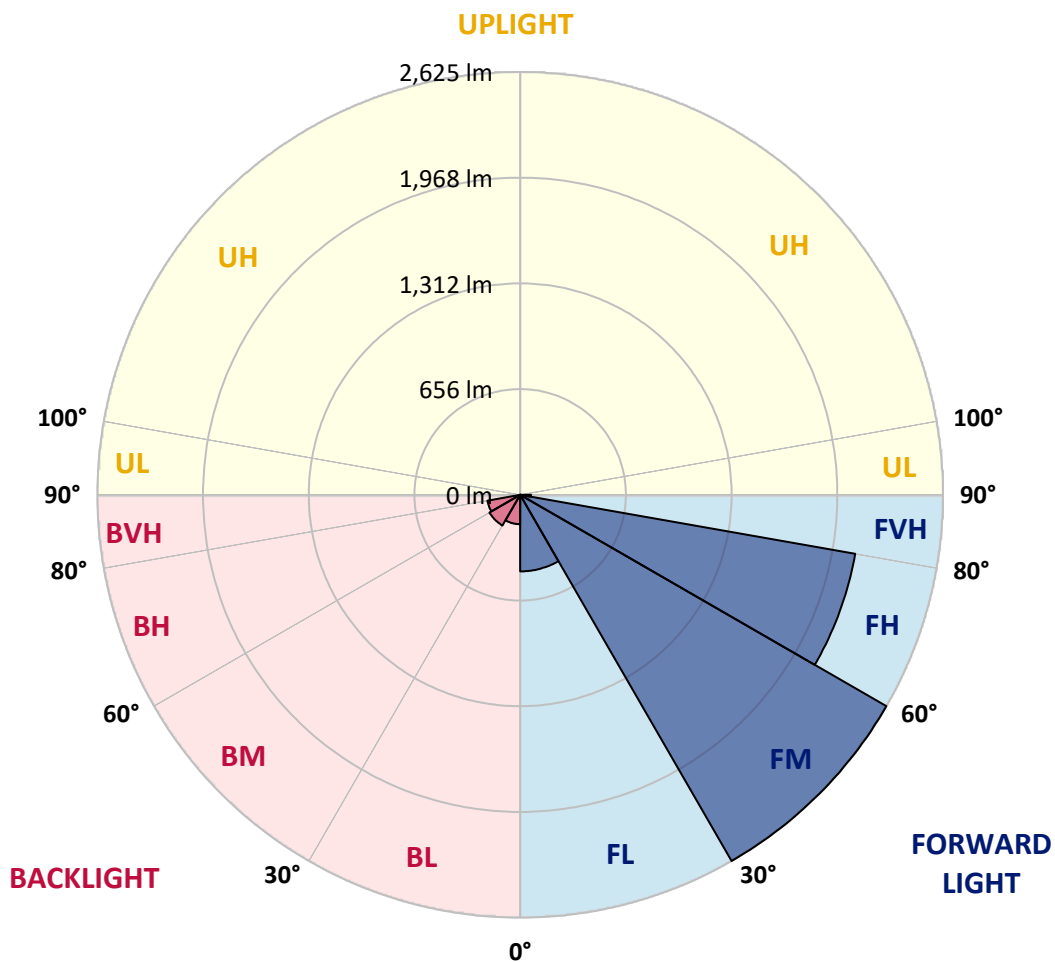
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.2	8.1			
FM (30°-60°)	2624.5	44.6			
FH (60°-80°)	2111.5	35.8			G2/5000
FVH (80°-90°)	67.0	1.1			G1/100
BL (0°-30°)	182.5	3.1	B1/500		
BM (30°-60°)	219.8	3.7	B0/220		
BH (60°-80°)	206.1	3.5	B1/500		G1/500
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9
2.5°	1342.8	1345.7	1345.3	1347.4	1352.2	1352.5	1347.6	1338.5	1336.4	1324.3	1303.4
5°	1238.5	1246.4	1251.2	1270.7	1292.8	1319.3	1339.2	1346.3	1345.3	1336.7	1305.1
7.5°	1119.3	1127.2	1132.7	1155.7	1184.9	1230.1	1282.2	1324.7	1328.5	1337.8	1303.7
10°	1039.9	1041.2	1048.9	1070.8	1101.4	1147.8	1209.6	1284.1	1295.4	1329.5	1300.2
12.5°	974.7	975.6	985.6	1009.3	1041.9	1088.7	1153.7	1239.8	1257.4	1319.3	1299.6
15°	928.3	932.0	941.0	965.7	1000.4	1046.7	1113.4	1207.2	1228.2	1315.4	1305.7
17.5°	912.8	916.9	919.7	937.6	969.1	1014.5	1082.8	1185.9	1209.6	1317.5	1317.9
20°	928.9	932.0	925.9	930.4	949.9	990.4	1057.0	1167.6	1195.9	1319.9	1333.3
22.5°	989.0	990.4	973.7	954.0	950.5	973.0	1036.9	1153.2	1183.4	1326.3	1351.5
25°	1092.1	1089.7	1062.2	1019.9	980.1	969.8	1024.7	1144.4	1177.3	1333.3	1370.4
27.5°	1216.5	1219.9	1182.1	1120.6	1044.6	990.4	1023.1	1140.6	1174.5	1338.0	1386.9
30°	1367.6	1372.4	1329.1	1251.9	1143.0	1041.2	1038.9	1139.9	1172.8	1335.1	1388.2
32.5°	1521.9	1527.7	1493.7	1414.0	1274.2	1126.5	1074.6	1147.5	1176.3	1324.3	1380.3
35°	1683.3	1691.6	1669.0	1600.6	1452.2	1249.5	1137.4	1170.4	1192.4	1323.4	1372.4
37.5°	1906.4	1913.8	1871.3	1798.8	1667.6	1414.4	1238.5	1213.7	1230.6	1339.8	1374.4
40°	2239.3	2238.1	2128.3	2017.2	1904.2	1624.0	1380.3	1292.0	1300.7	1389.6	1399.9
42.5°	2602.0	2600.2	2437.8	2269.1	2167.2	1881.9	1567.0	1427.4	1421.6	1481.3	1465.9
45°	2881.7	2881.4	2748.6	2558.7	2483.5	2178.1	1808.1	1615.7	1606.8	1630.5	1587.6
47.5°	3000.9	3002.9	2936.3	2802.6	2834.2	2578.7	2112.1	1888.4	1875.0	1865.4	1800.2
50°	2908.2	2912.2	2917.8	2891.6	3091.5	3116.9	2519.8	2272.9	2266.3	2223.5	2121.3
52.5°	2605.1	2626.0	2690.7	2773.3	3180.9	3633.6	3159.2	2750.4	2715.3	2669.7	2557.4
55°	2094.6	2117.7	2240.3	2441.2	3047.9	3973.1	4055.2	3365.9	3307.6	3171.2	3009.1
57.5°	1386.2	1421.9	1599.9	1855.4	2661.8	4027.7	4949.1	4220.3	4017.0	3643.6	3460.8
60°	763.6	798.1	991.1	1222.7	1922.5	3757.7	5550.3	5332.8	4973.5	4171.5	4009.4
62.5°	470.4	488.9	631.4	846.8	1153.0	2965.8	5674.7	6730.7	6314.6	4851.4	4672.2
65°	374.5	382.4	452.0	692.2	826.6	1764.1	5273.1	7796.4	7657.5	5674.7	5265.4
67°	363.5	366.6	399.6	594.3	779.2	1081.5	4417.7	7969.9	8110.6	6172.8	5284.0
67.5°	365.9	369.4	400.6	567.2	777.8	993.9	4122.9	7901.5	8079.4	6212.3	5201.9
70°	352.9	363.5	458.7	566.8	739.7	825.9	2469.0	6846.2	7031.3	5772.1	4413.8
72.5°	125.0	125.8	198.3	458.7	804.3	834.9	1239.8	5018.8	5155.9	4415.6	3182.2
75°	74.2	63.2	65.9	130.6	768.5	810.8	715.3	3206.9	3258.2	2530.2	1611.6
77.5°	51.3	44.6	46.1	57.8	292.7	799.4	568.2	1672.4	1617.8	887.3	343.2
80°	29.3	25.8	27.5	50.6	106.4	745.9	535.8	678.1	578.1	150.5	94.9
82.5°	15.5	13.0	15.8	41.6	74.2	464.9	536.9	327.7	259.7	50.8	64.6
85°	5.5	4.5	7.5	28.6	49.4	142.7	497.8	275.5	216.4	24.8	49.1
87.5°	1.1	1.1	3.1	11.7	19.9	43.7	294.5	163.5	109.7	14.8	33.6
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°	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9
2.5°	1294.7	1280.1	1260.1	1235.7	1206.9	1181.5	1162.5	1143.0	1138.8	1132.0	1131.0
5°	1286.3	1260.9	1211.4	1154.6	1094.1	1039.6	995.2	955.7	938.2	923.1	921.4
7.5°	1273.4	1235.3	1151.2	1059.8	965.4	879.5	806.7	755.1	707.8	685.0	681.5
10°	1258.7	1204.1	1083.5	956.8	826.3	704.9	596.7	506.0	451.0	418.4	414.3
12.5°	1245.1	1173.5	1014.5	849.9	676.5	514.3	375.1	288.5	230.9	207.5	204.8
15°	1238.5	1148.8	949.9	740.7	519.8	327.4	205.2	158.7	139.9	134.3	133.9
17.5°	1237.8	1127.8	886.6	627.6	364.2	190.4	133.7	122.0	118.1	116.8	116.8
20°	1237.4	1107.9	823.4	510.4	231.3	126.8	111.3	108.5	105.8	104.2	104.2
22.5°	1241.2	1090.1	757.5	390.9	145.6	102.8	97.9	95.2	91.7	89.3	89.0
25°	1245.1	1076.3	690.2	278.3	105.6	89.3	84.5	80.8	75.9	72.9	72.6
27.5°	1245.7	1059.1	618.0	186.2	88.4	78.1	71.9	65.9	60.5	57.4	57.0
30°	1235.3	1030.3	537.9	125.8	78.1	67.7	59.5	53.3	48.1	45.8	45.8
32.5°	1215.0	994.6	450.1	94.9	69.3	58.1	49.1	43.3	39.9	38.8	38.4
35°	1196.9	956.1	359.7	80.4	62.3	49.1	40.2	36.4	34.3	34.0	33.6
37.5°	1186.2	925.2	274.8	72.9	55.3	41.2	34.0	31.4	30.3	29.6	30.0
40°	1194.4	899.5	203.0	66.7	48.5	34.3	28.8	27.5	26.5	26.1	26.1
42.5°	1230.6	894.9	150.8	61.2	42.0	28.6	25.2	24.1	23.4	23.0	23.4
45°	1325.4	922.4	117.1	56.1	35.5	24.1	21.3	21.0	20.7	20.7	20.7
47.5°	1468.0	979.2	97.6	50.1	29.6	20.7	18.5	18.2	17.8	18.2	18.2
50°	1709.5	1082.8	87.2	44.3	24.4	17.5	15.8	15.8	15.8	15.8	16.2
52.5°	2076.7	1286.9	80.4	38.4	19.9	14.8	13.5	13.5	13.7	13.7	14.2
55°	2485.9	1557.7	74.2	32.7	16.9	12.3	11.0	11.4	11.7	12.0	12.0
57.5°	2929.7	1857.5	69.1	26.8	14.5	10.1	9.3	9.6	10.1	10.7	10.7
60°	3465.3	2182.3	61.5	21.0	12.0	7.9	7.2	7.9	9.0	9.6	10.1
62.5°	4053.4	2496.2	51.9	16.4	10.1	6.2	5.8	7.2	8.7	9.3	9.6
65°	4455.5	2594.8	39.9	13.5	7.5	4.5	4.9	6.6	8.3	9.3	9.3
67°	4292.6	2352.7	32.7	11.4	6.2	3.5	4.5	6.6	8.3	9.0	9.3
67.5°	4179.5	2257.8	31.4	11.0	5.8	3.5	4.5	6.6	8.3	9.3	9.3
70°	3400.8	1696.1	26.1	8.3	4.9	3.1	3.9	6.2	7.9	9.0	9.0
72.5°	2362.9	1045.7	23.4	5.8	4.1	2.8	3.5	5.8	7.5	8.7	9.0
75°	1123.4	378.5	19.9	4.5	3.9	2.4	3.1	5.8	7.5	8.7	8.7
77.5°	229.2	87.9	16.2	3.9	3.1	2.4	2.8	5.5	7.2	8.3	8.3
80°	75.3	34.0	12.0	3.5	3.1	2.4	2.8	5.2	7.2	7.9	8.3
82.5°	54.3	17.2	7.9	3.5	3.1	2.4	2.4	5.2	6.8	7.9	7.9
85°	41.6	12.0	5.2	3.5	3.1	2.4	2.4	4.9	6.6	7.5	7.5
87.5°	27.5	4.9	4.1	3.5	3.1	2.4	2.4	4.9	6.2	7.2	7.5
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)