

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: P270117

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270117
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: GWC-AF-02-LED-E1-SL2-7027-600-HSS
Description: GALLEON WALL 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: 5790.1 lumens
Efficiency: N/A
Efficacy: 87.7 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

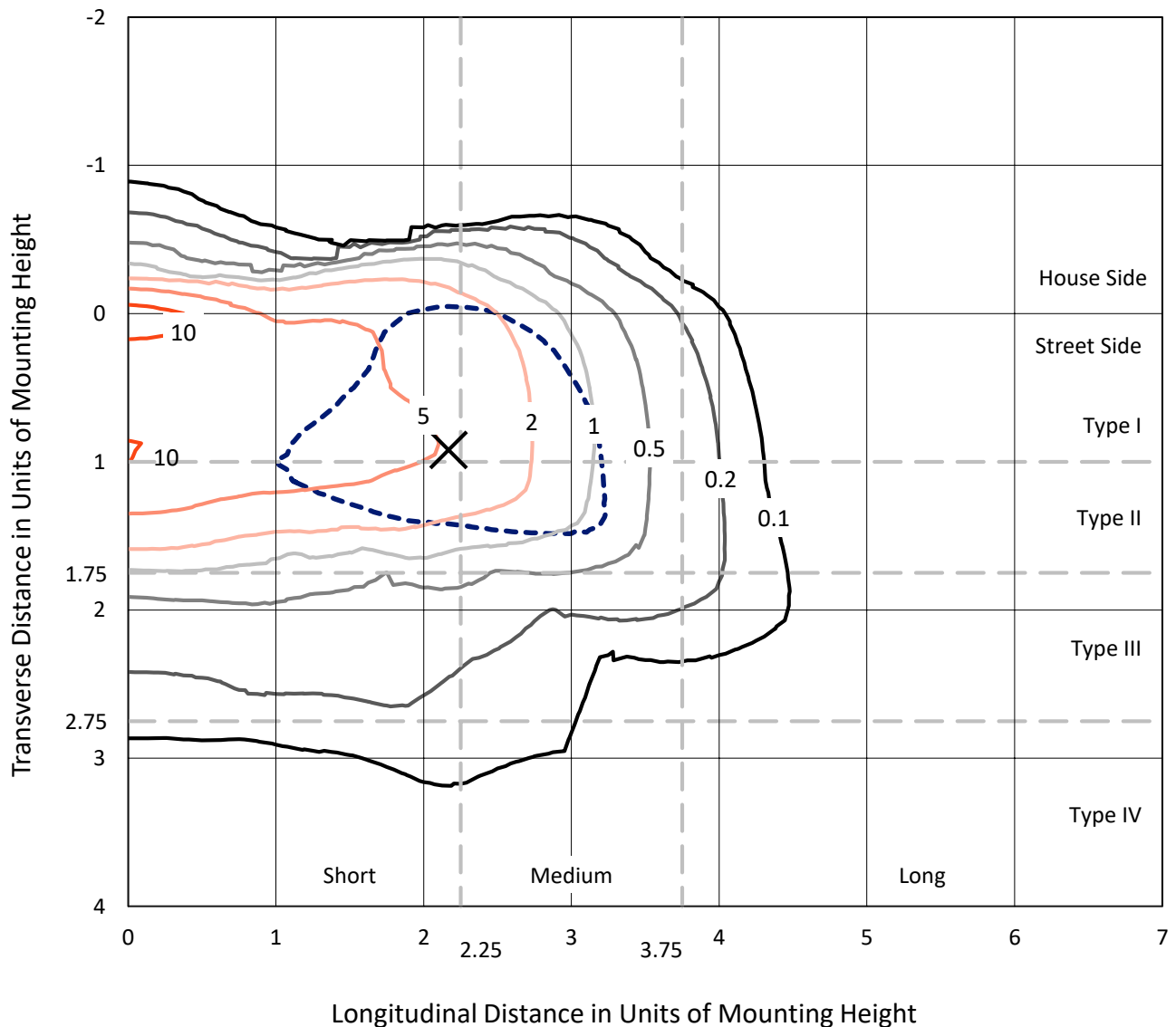


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

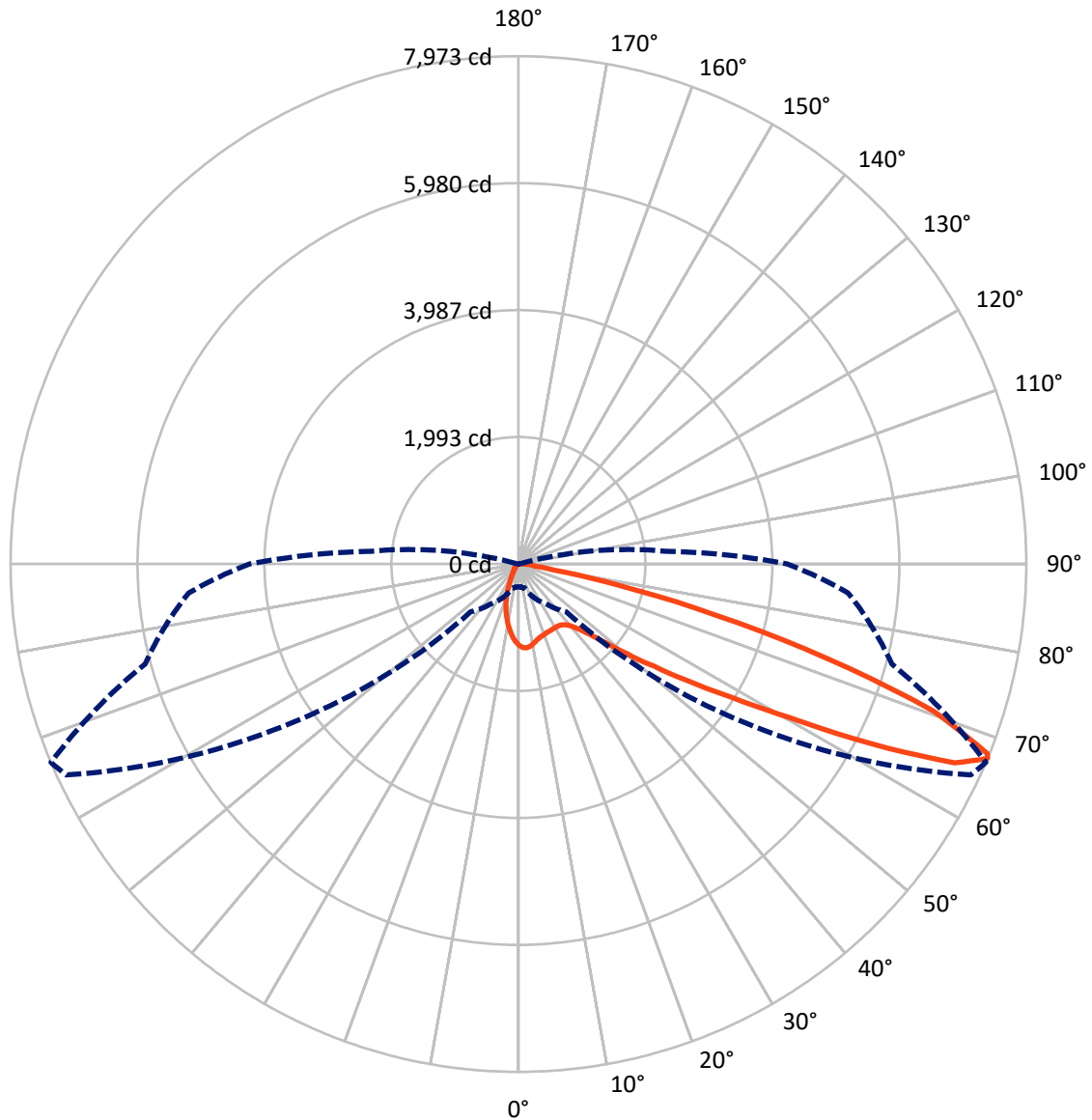


Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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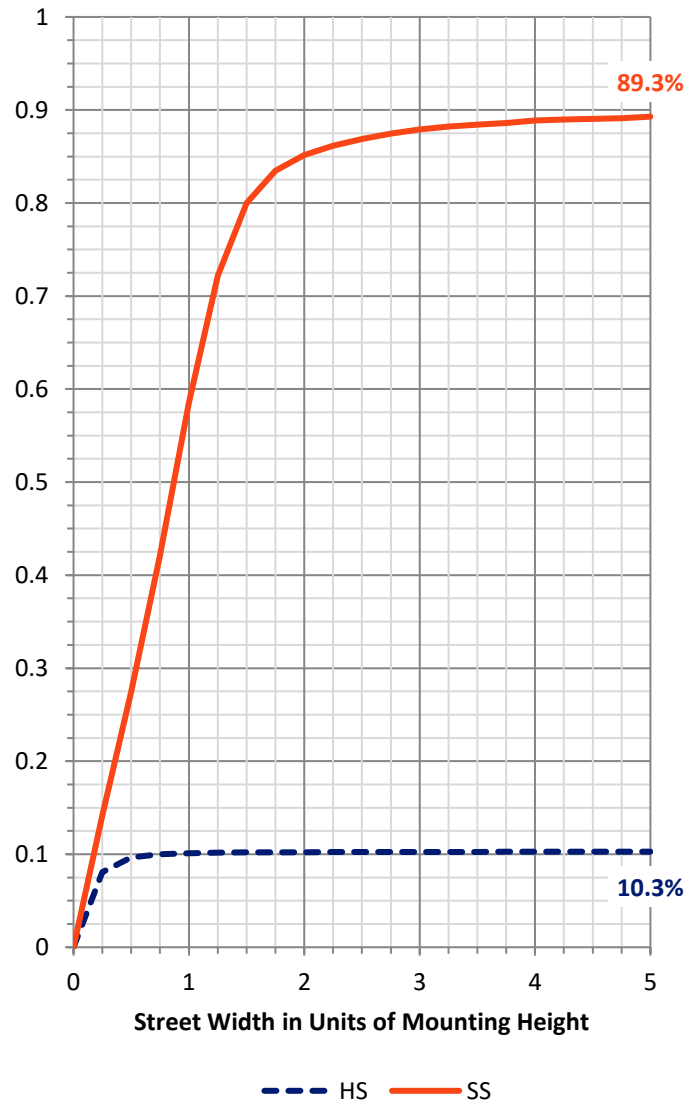
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	601.3	0.0	601.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5188.9	0.0	5188.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	5790.1	0.0	5790.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	1.8
10°-20°	221.1	3.8
20°-30°	321.5	5.6
30°-40°	501.6	8.7
40°-50°	888.5	15.3
50°-60°	1406.0	24.3
60°-70°	1610.4	27.8
70°-80°	668.0	11.5
80°-90°	69.0	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°	5790.1	100.0
0°-180°	5790.1	100.0



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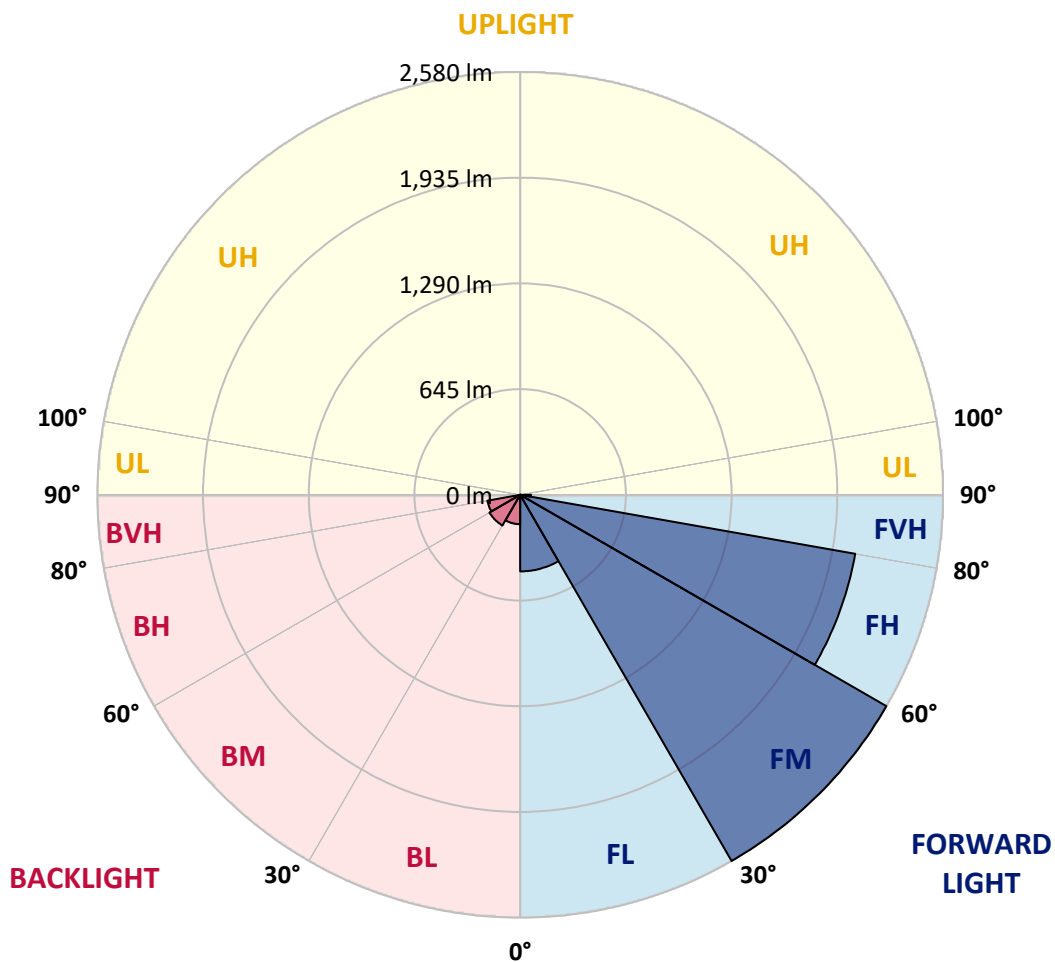
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.2	8.1			
FM (30°-60°)	2580.1	44.6			
FH (60°-80°)	2075.8	35.8			G2/5000
FVH (80°-90°)	65.9	1.1			G1/100
BL (0°-30°)	179.4	3.1	B1/500		
BM (30°-60°)	216.1	3.7	B0/220		
BH (60°-80°)	202.6	3.5	B1/500		G1/500
BVH (80°-90°)	3.1	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°	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1320.1	1322.8	1322.5	1324.6	1329.3	1329.6	1324.8	1315.7	1313.8	1301.8	1281.3
5°	1217.5	1225.3	1230.0	1249.2	1270.8	1296.9	1316.5	1323.5	1322.5	1314.0	1283.0
7.5°	1100.3	1108.1	1113.4	1136.1	1164.7	1209.3	1260.4	1302.3	1306.0	1315.1	1281.6
10°	1022.3	1023.6	1031.1	1052.6	1082.7	1128.3	1189.1	1262.4	1273.5	1306.9	1278.2
12.5°	958.1	959.1	968.9	992.3	1024.2	1070.2	1134.1	1218.8	1236.1	1296.9	1277.6
15°	912.6	916.2	925.0	949.3	983.5	1029.0	1094.5	1186.8	1207.3	1293.1	1283.6
17.5°	897.3	901.4	904.1	921.7	952.7	997.3	1064.5	1165.8	1189.1	1295.1	1295.5
20°	913.2	916.2	910.2	914.6	933.8	973.6	1039.2	1147.9	1175.6	1297.5	1310.6
22.5°	972.2	973.6	957.1	937.8	934.4	956.4	1019.3	1133.7	1163.4	1303.9	1328.6
25°	1073.6	1071.2	1044.3	1002.7	963.5	953.4	1007.4	1124.9	1157.4	1310.6	1347.1
27.5°	1195.8	1199.2	1162.0	1101.7	1026.9	973.6	1005.7	1121.3	1154.6	1315.4	1363.4
30°	1344.4	1349.2	1306.6	1230.7	1123.6	1023.6	1021.3	1120.5	1153.0	1312.4	1364.7
32.5°	1496.1	1501.9	1468.4	1390.0	1252.6	1107.3	1056.4	1128.0	1156.4	1301.8	1357.0
35°	1654.8	1662.9	1640.7	1573.5	1427.6	1228.3	1118.1	1150.5	1172.2	1300.9	1349.2
37.5°	1874.0	1881.4	1839.5	1768.3	1639.3	1390.4	1217.5	1193.1	1209.7	1317.1	1351.1
40°	2201.3	2200.2	2092.2	1983.0	1872.0	1596.5	1357.0	1270.1	1278.6	1366.1	1376.2
42.5°	2557.9	2556.1	2396.5	2230.7	2130.4	1850.0	1540.4	1403.2	1397.5	1456.2	1441.1
45°	2832.8	2832.5	2702.0	2515.3	2441.3	2141.2	1777.5	1588.3	1579.6	1602.8	1560.6
47.5°	2950.0	2952.0	2886.5	2755.1	2786.2	2534.9	2076.3	1856.4	1843.2	1833.8	1769.7
50°	2858.9	2862.9	2868.3	2842.6	3039.1	3064.1	2477.2	2234.4	2227.9	2185.8	2085.4
52.5°	2560.9	2581.5	2645.1	2726.4	3127.0	3572.0	3105.6	2703.8	2669.3	2624.4	2514.0
55°	2059.1	2081.7	2202.3	2399.8	2996.2	3905.7	3986.5	3308.9	3251.5	3117.5	2958.1
57.5°	1362.6	1397.9	1572.8	1824.0	2616.7	3959.5	4865.2	4148.8	3948.9	3581.9	3402.2
60°	750.7	784.5	974.3	1201.9	1889.9	3694.0	5456.2	5242.4	4889.2	4100.9	3941.5
62.5°	462.4	480.6	620.7	832.5	1133.4	2915.5	5578.5	6616.6	6207.6	4769.2	4592.9
65°	368.1	375.9	444.4	680.5	812.6	1734.2	5183.7	7664.2	7527.7	5578.5	5176.2
67°	357.3	360.4	392.8	584.3	766.0	1063.1	4342.8	7834.7	7973.2	6068.1	5194.4
67.5°	359.7	363.1	393.7	557.6	764.6	977.0	4053.0	7767.6	7942.5	6107.0	5113.8
70°	346.8	357.3	450.9	557.2	727.1	811.9	2427.1	6730.1	6912.1	5674.3	4339.0
72.5°	122.9	123.6	194.9	450.9	790.6	820.7	1218.8	4933.8	5068.5	4340.8	3128.3
75°	72.9	62.2	64.9	128.4	755.5	797.1	703.2	3152.6	3202.9	2487.3	1584.3
77.5°	50.4	43.9	45.3	56.8	287.7	785.8	558.6	1644.0	1590.4	872.3	337.4
80°	28.7	25.3	27.0	49.7	104.7	733.2	526.8	666.6	568.4	148.0	93.2
82.5°	15.3	12.8	15.5	40.9	72.9	457.0	527.8	322.1	255.3	49.9	63.5
85°	5.4	4.4	7.5	28.1	48.6	140.2	489.4	270.8	212.7	24.3	48.3
87.5°	1.1	1.1	3.1	11.5	19.6	42.9	289.4	160.7	107.8	14.6	33.1
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°	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1272.8	1258.3	1238.8	1214.8	1186.4	1161.4	1142.8	1123.6	1119.5	1112.7	1111.8
5°	1264.5	1239.5	1190.8	1135.0	1075.6	1022.0	978.3	939.5	922.3	907.5	905.8
7.5°	1251.9	1214.4	1131.7	1041.9	949.1	864.6	793.0	742.4	695.7	673.4	670.0
10°	1237.4	1183.7	1065.2	940.5	812.2	693.0	586.6	497.5	443.4	411.3	407.3
12.5°	1223.9	1153.7	997.3	835.5	665.0	505.6	368.8	283.7	226.9	204.0	201.3
15°	1217.5	1129.3	933.8	728.2	511.0	321.9	201.7	156.0	137.5	132.1	131.7
17.5°	1216.8	1108.7	871.6	617.0	358.0	187.1	131.4	119.9	116.2	114.8	114.8
20°	1216.5	1089.1	809.5	501.8	227.4	124.7	109.4	106.7	104.0	102.4	102.4
22.5°	1220.2	1071.6	744.7	384.3	143.2	101.1	96.3	93.6	90.2	87.8	87.5
25°	1223.9	1058.0	678.5	273.5	103.8	87.8	83.1	79.4	74.6	71.6	71.3
27.5°	1224.6	1041.1	607.5	183.1	86.9	76.7	70.6	64.9	59.5	56.4	56.1
30°	1214.4	1012.8	528.8	123.6	76.7	66.6	58.5	52.4	47.3	45.0	45.0
32.5°	1194.5	977.7	442.4	93.2	68.2	57.1	48.3	42.6	39.2	38.2	37.8
35°	1176.6	939.9	353.6	79.1	61.2	48.3	39.5	35.8	33.8	33.5	33.1
37.5°	1166.1	909.4	270.1	71.6	54.4	40.5	33.5	30.8	29.7	29.0	29.5
40°	1174.2	884.2	199.6	65.5	47.7	33.8	28.4	27.0	26.1	25.7	25.7
42.5°	1209.7	879.7	148.3	60.1	41.2	28.1	24.7	23.6	23.0	22.6	23.0
45°	1302.9	906.7	115.2	55.1	34.9	23.6	20.9	20.7	20.3	20.3	20.3
47.5°	1443.1	962.5	95.9	49.3	29.0	20.3	18.2	18.0	17.5	18.0	18.0
50°	1680.5	1064.5	85.8	43.6	24.0	17.2	15.5	15.5	15.5	15.5	15.9
52.5°	2041.5	1265.1	79.1	37.8	19.6	14.6	13.2	13.2	13.5	13.5	13.9
55°	2443.7	1531.3	72.9	32.2	16.6	12.1	10.8	11.2	11.5	11.9	11.9
57.5°	2880.1	1826.1	67.9	26.3	14.2	9.9	9.2	9.4	9.9	10.5	10.5
60°	3406.6	2145.2	60.5	20.7	11.9	7.8	7.1	7.8	8.8	9.4	9.9
62.5°	3984.7	2453.9	51.0	16.2	9.9	6.1	5.7	7.1	8.5	9.2	9.4
65°	4380.0	2550.7	39.2	13.2	7.5	4.4	4.8	6.5	8.1	9.2	9.2
67°	4219.9	2312.8	32.2	11.2	6.1	3.4	4.4	6.5	8.1	8.8	9.2
67.5°	4108.7	2219.5	30.8	10.8	5.7	3.4	4.4	6.5	8.1	9.2	9.2
70°	3343.1	1667.3	25.7	8.1	4.8	3.1	3.8	6.1	7.8	8.8	8.8
72.5°	2322.8	1028.0	23.0	5.7	4.0	2.7	3.4	5.7	7.5	8.5	8.8
75°	1104.4	372.2	19.6	4.4	3.8	2.4	3.1	5.7	7.5	8.5	8.5
77.5°	225.3	86.4	15.9	3.8	3.1	2.4	2.7	5.4	7.1	8.1	8.1
80°	74.0	33.5	11.9	3.4	3.1	2.4	2.7	5.1	7.1	7.8	8.1
82.5°	53.4	16.9	7.8	3.4	3.1	2.4	2.4	5.1	6.7	7.8	7.8
85°	40.9	11.9	5.1	3.4	3.1	2.4	2.4	4.8	6.5	7.5	7.5
87.5°	27.0	4.8	4.0	3.4	3.1	2.4	2.4	4.8	6.1	7.1	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)