

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: P299456

Luminaire Tested: **GLNA-AF-01-LED-E1-5NQ-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-5NQ-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4082.4 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

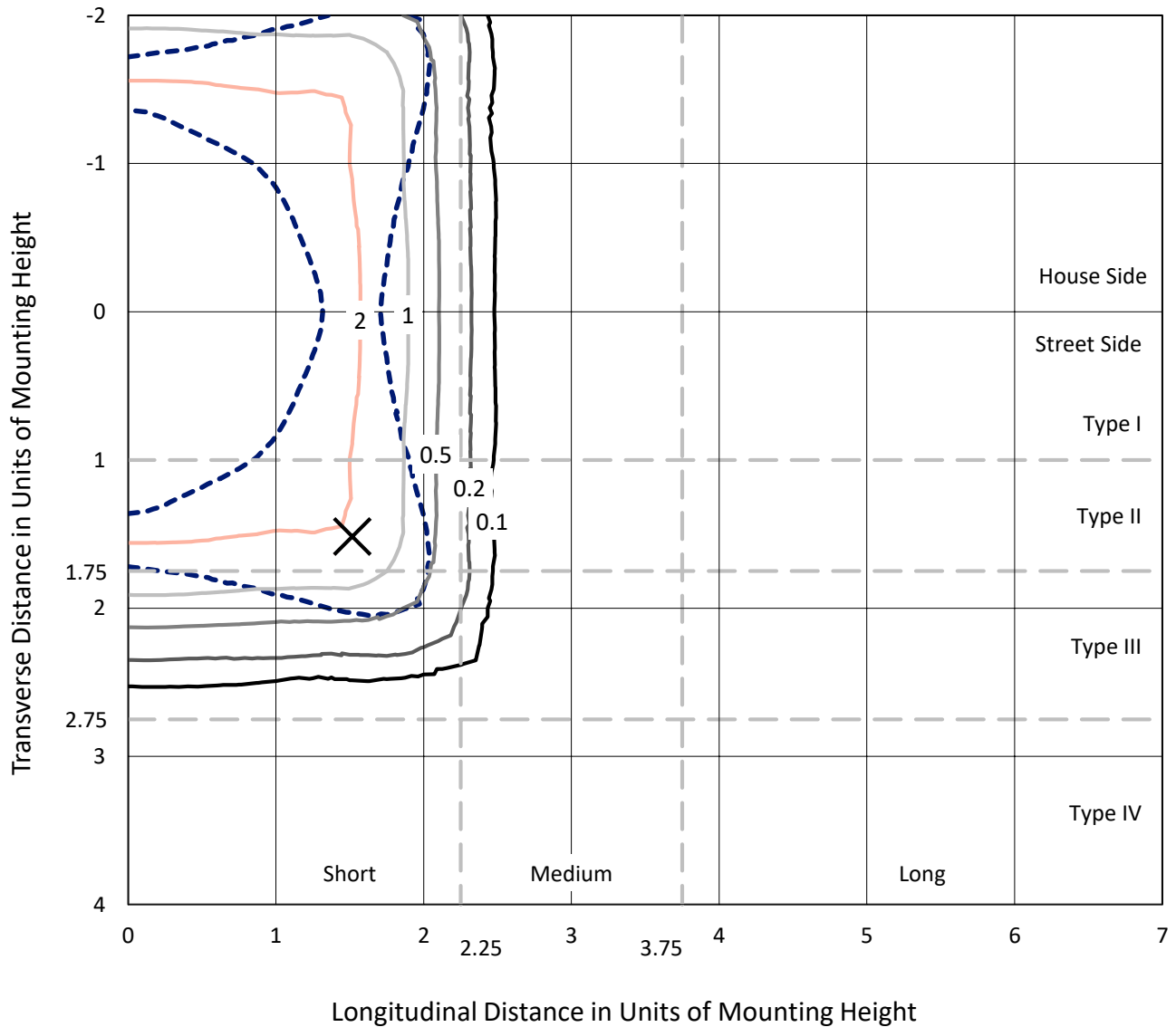
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

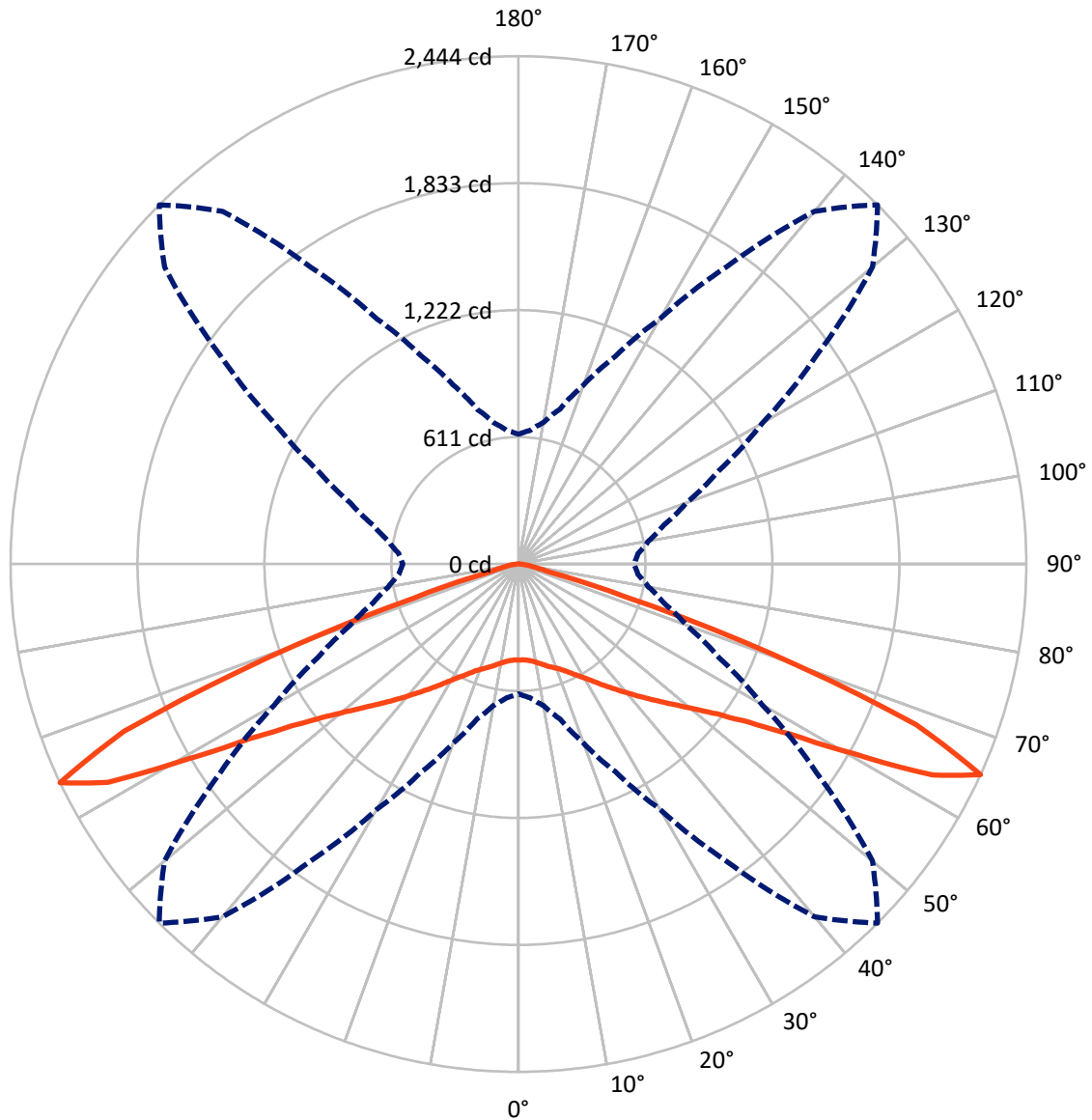
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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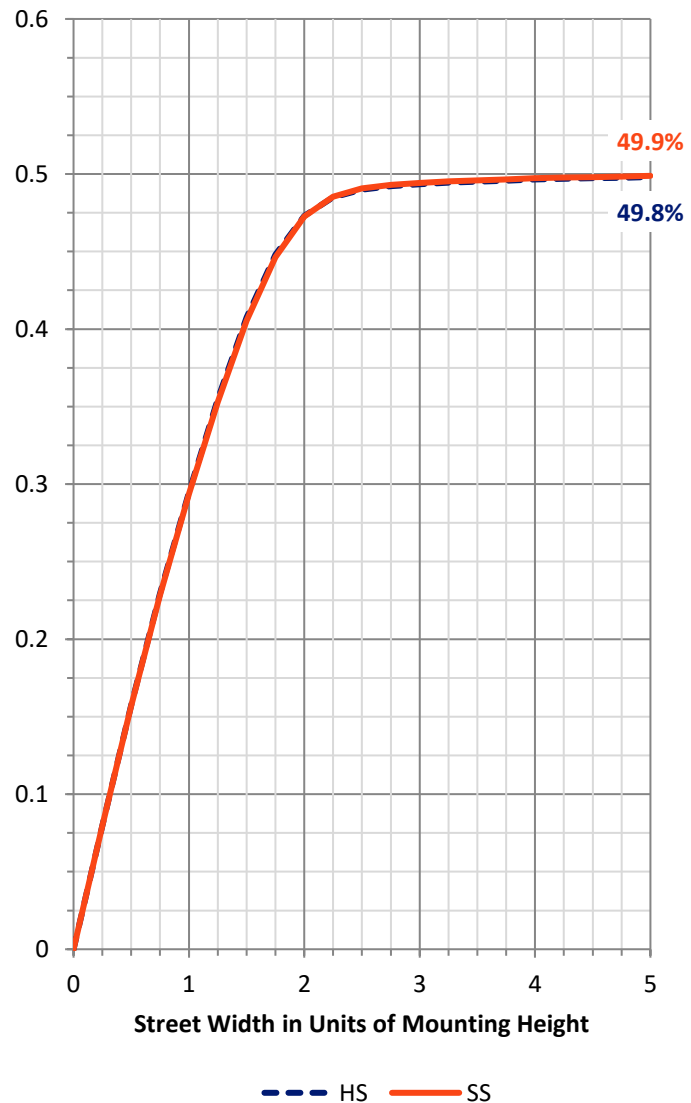
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2041.2	0.0	2041.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2041.2	0.0	2041.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4082.4	0.0	4082.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	1.1
10°-20°	144.4	3.5
20°-30°	270.0	6.6
30°-40°	456.6	11.2
40°-50°	746.7	18.3
50°-60°	1187.3	29.1
60°-70°	1073.2	26.3
70°-80°	135.8	3.3
80°-90°	23.4	0.6
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°	4082.4	100.0
0°-180°	4082.4	100.0



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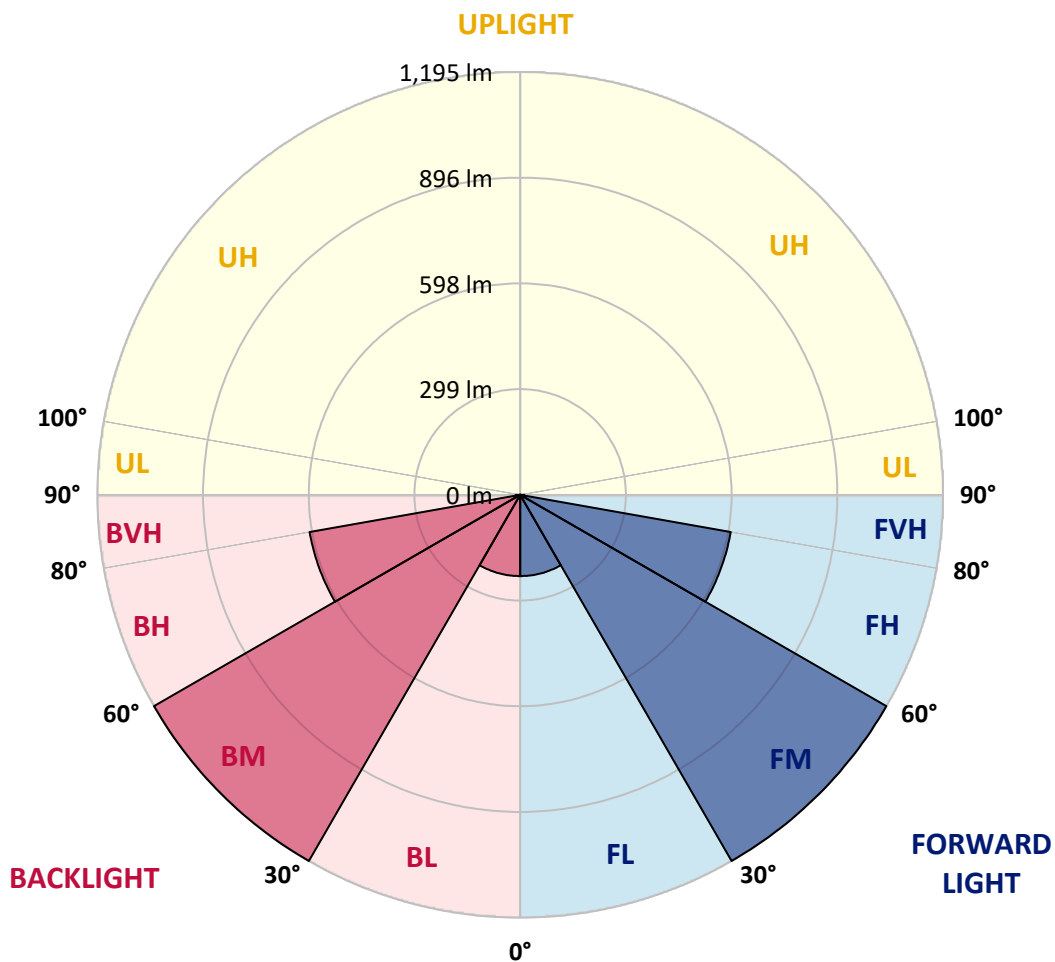
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.7	5.6			
FM (30°-60°)	1195.3	29.3			
FH (60°-80°)	604.5	14.8			G0/660
FVH (80°-90°)	11.7	0.3			G1/100
BL (0°-30°)	229.7	5.6	B1/500		
BM (30°-60°)	1195.3	29.3	B2/2500		
BH (60°-80°)	604.5	14.8	B2/1000		G0/660
BVH (80°-90°)	11.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	462.3	462.7	463.1	462.7	463.1	462.5	462.1	462.7	462.1	461.5	461.9
5°	466.3	466.5	466.5	465.9	466.5	466.1	465.6	466.3	465.7	465.2	465.6
7.5°	473.0	473.8	473.2	472.6	473.0	472.6	472.3	472.4	472.3	471.7	471.9
10°	482.0	482.6	482.2	482.0	482.4	482.2	481.8	481.6	481.8	481.2	481.2
12.5°	492.9	492.7	492.5	492.7	493.3	493.3	493.1	493.3	493.7	493.9	493.5
15°	503.6	504.0	504.0	504.0	505.1	506.1	506.7	507.0	507.8	508.0	507.2
17.5°	517.0	517.0	516.8	517.0	518.1	519.7	520.2	521.0	521.8	522.3	521.4
20°	531.9	532.3	532.3	532.7	534.2	535.9	535.9	536.3	535.9	536.3	535.7
22.5°	550.1	551.2	551.2	551.4	552.9	555.0	554.5	555.0	554.1	554.8	554.1
25°	573.8	575.5	575.1	575.1	576.3	577.6	577.8	578.9	578.7	579.7	579.1
27.5°	600.5	603.2	604.0	603.8	604.6	605.9	606.3	607.6	606.9	607.6	607.2
30°	632.7	633.8	635.3	635.9	636.9	638.2	638.2	638.4	637.4	638.6	639.2
32.5°	665.9	668.0	669.6	673.0	674.7	675.7	675.5	675.9	674.9	676.4	677.6
35°	709.9	711.4	713.9	716.6	718.9	718.7	718.1	718.3	718.3	719.7	720.8
37.5°	762.9	763.2	766.5	770.3	771.5	770.3	766.9	766.1	764.4	766.1	768.0
40°	818.9	820.2	826.7	829.2	829.8	827.7	822.7	819.8	816.0	818.1	820.8
42.5°	877.6	880.3	886.2	890.6	892.5	891.2	884.3	879.9	874.9	876.1	878.7
45°	942.6	945.8	954.3	958.5	962.1	960.0	953.3	946.6	938.8	939.3	943.5
47.5°	1015.2	1018.5	1029.4	1036.5	1038.4	1038.0	1030.5	1021.4	1010.7	1010.3	1013.9
50°	1096.7	1099.9	1113.5	1124.4	1130.0	1129.4	1120.6	1107.6	1094.6	1094.8	1099.4
52.5°	1176.2	1180.2	1194.4	1213.1	1224.0	1231.9	1226.5	1214.3	1198.4	1198.8	1203.0
55°	1250.8	1257.5	1273.7	1299.2	1319.4	1341.4	1347.7	1347.3	1337.8	1340.5	1344.7
57.5°	1286.9	1296.9	1321.9	1362.1	1403.4	1448.1	1486.0	1514.3	1526.3	1544.5	1540.3
60°	1218.5	1234.4	1271.3	1330.3	1412.0	1505.3	1605.3	1703.0	1786.3	1849.2	1813.1
62.5°	997.7	1018.3	1063.0	1138.8	1262.3	1411.6	1603.0	1833.9	2085.5	2237.4	2129.0
65°	624.2	645.7	691.2	772.2	916.8	1102.4	1362.1	1744.8	2215.0	2443.8	2223.2
67.5°	243.4	255.1	279.7	331.5	440.1	605.3	865.9	1300.3	1862.6	2063.2	1828.0
70°	122.0	123.1	127.7	137.3	160.6	208.6	317.4	602.8	1068.2	1290.2	1029.8
72.5°	88.1	88.3	90.6	94.8	102.3	113.0	133.6	184.5	347.4	530.9	325.6
75°	67.5	68.3	69.6	71.9	75.9	81.3	88.7	106.3	131.7	152.8	128.5
77.5°	52.0	53.5	54.5	56.6	59.1	62.7	64.8	71.5	83.2	87.6	86.2
80°	39.6	40.9	43.0	44.7	46.5	48.2	47.4	50.5	56.6	60.2	58.3
82.5°	25.2	26.8	32.9	34.4	35.2	36.3	35.0	35.2	37.9	40.2	37.9
85°	16.3	17.2	20.8	22.8	22.9	23.7	23.1	21.8	21.8	19.9	22.4
87.5°	7.5	7.6	9.4	11.1	11.5	10.3	10.1	9.8	7.8	7.5	8.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	461.7	462.1	462.3	462.9	463.1	463.1	463.3	463.6
5°	465.4	465.9	466.1	466.9	467.1	466.9	467.3	467.5
7.5°	471.9	472.8	473.2	474.0	473.4	474.2	474.4	474.4
10°	481.4	482.4	482.6	483.3	483.0	483.3	483.3	483.0
12.5°	494.0	494.2	493.7	494.2	493.5	493.9	493.3	492.9
15°	508.0	507.4	506.1	506.1	504.9	505.1	504.9	504.8
17.5°	521.6	520.4	519.5	519.1	518.1	517.9	517.4	517.4
20°	536.5	535.9	535.3	534.6	533.6	532.7	532.5	532.9
22.5°	554.5	554.3	554.3	553.9	552.6	551.6	551.0	551.0
25°	578.6	576.8	576.8	576.6	576.1	575.5	574.3	574.9
27.5°	605.7	604.7	605.5	605.3	604.7	604.7	604.0	604.0
30°	639.2	638.8	639.9	639.0	637.1	636.9	636.1	635.1
32.5°	677.8	677.4	679.1	678.0	674.9	673.2	671.7	670.9
35°	720.8	721.0	723.1	722.3	718.9	717.7	715.1	714.7
37.5°	767.8	770.9	774.5	775.3	772.4	771.7	768.8	767.3
40°	823.1	827.1	832.7	834.0	830.9	830.4	826.3	824.2
42.5°	882.0	888.9	895.7	896.9	893.8	890.8	887.0	885.4
45°	947.8	956.0	965.0	967.3	962.7	959.0	954.1	954.1
47.5°	1021.6	1031.9	1042.0	1048.3	1044.1	1040.3	1034.4	1030.5
50°	1108.7	1122.9	1136.1	1142.6	1135.9	1128.6	1118.3	1114.9
52.5°	1218.1	1233.4	1244.9	1241.4	1231.1	1221.0	1209.7	1205.1
55°	1357.7	1362.8	1362.8	1349.8	1329.2	1312.2	1294.4	1288.5
57.5°	1532.2	1512.3	1481.8	1442.9	1394.2	1351.7	1323.1	1309.5
60°	1737.4	1641.8	1533.8	1427.6	1340.5	1268.6	1225.9	1206.4
62.5°	1874.1	1624.0	1407.6	1237.2	1111.8	1025.2	966.3	943.4
65°	1751.5	1354.4	1064.6	860.8	724.1	635.9	577.6	556.2
67.5°	1282.9	848.7	566.9	406.3	297.7	237.5	213.6	203.6
70°	575.9	298.8	183.2	143.0	123.3	113.2	108.8	107.3
72.5°	173.6	125.6	105.9	95.6	87.8	82.8	79.2	78.8
75°	104.8	87.2	77.4	71.3	66.3	62.3	60.4	59.8
77.5°	73.2	64.1	59.5	55.1	51.2	48.2	46.5	45.1
80°	51.4	47.0	44.9	42.4	40.0	37.1	34.6	33.5
82.5°	34.4	33.5	33.5	31.9	29.8	27.1	22.2	21.0
85°	22.2	22.0	22.4	21.8	20.3	17.4	14.3	13.6
87.5°	10.3	10.5	11.7	11.5	11.1	9.2	7.3	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)