

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: P300655

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular  
Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

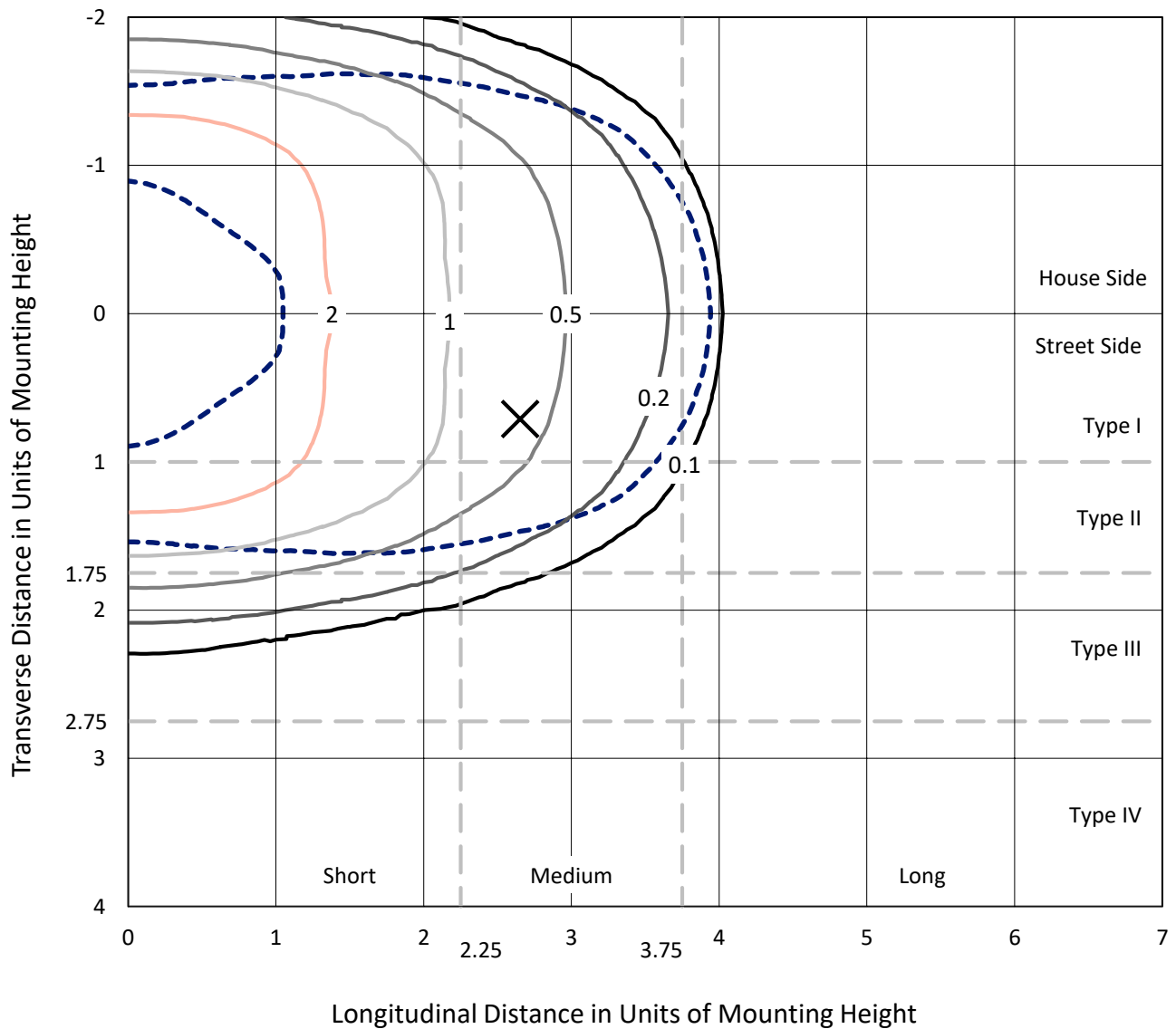
Lumens per Lamp: N/A  
Luminaire Lumens: 3633.9 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (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

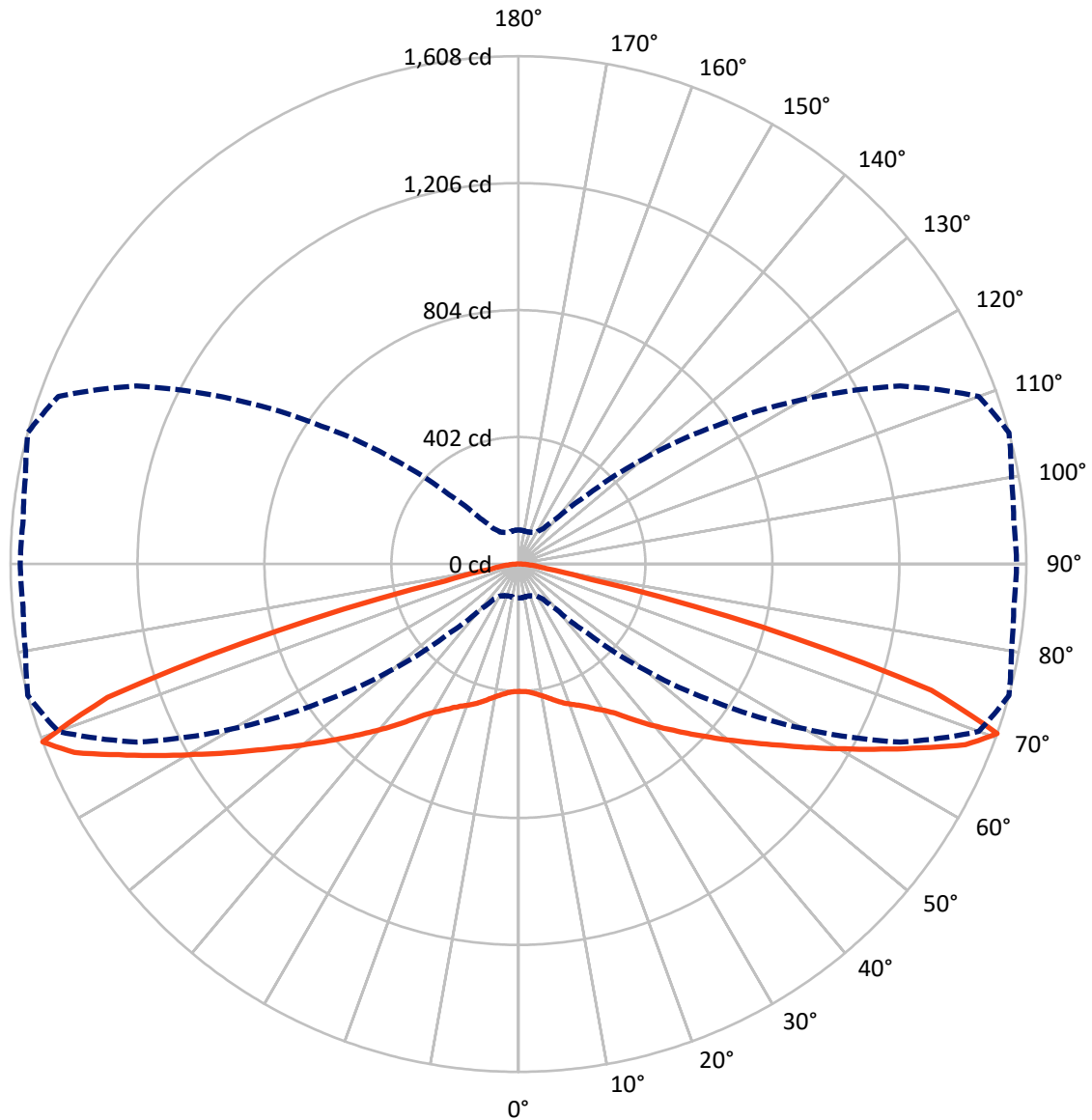
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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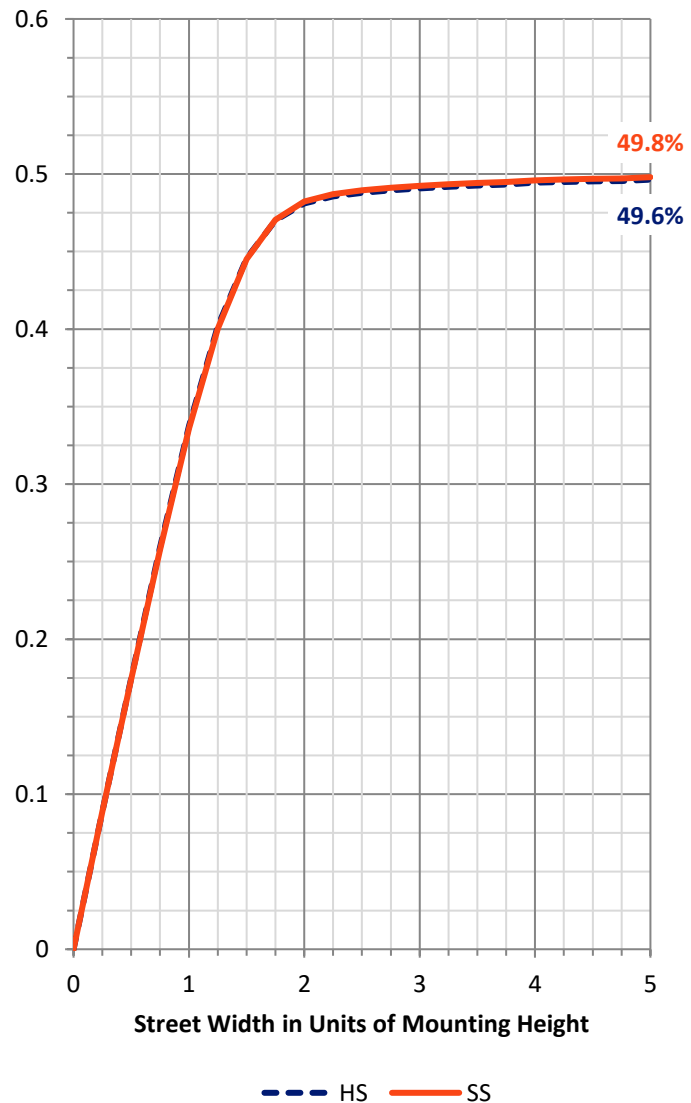
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1816.9	0.0	1816.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1816.9	0.0	1816.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3633.9	0.0	3633.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.7	1.1
10°-20°	120.1	3.3
20°-30°	226.1	6.2
30°-40°	400.3	11.0
40°-50°	669.5	18.4
50°-60°	933.0	25.7
60°-70°	865.2	23.8
70°-80°	344.8	9.5
80°-90°	36.2	1.0
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°	3633.9	100.0
0°-180°	3633.9	100.0



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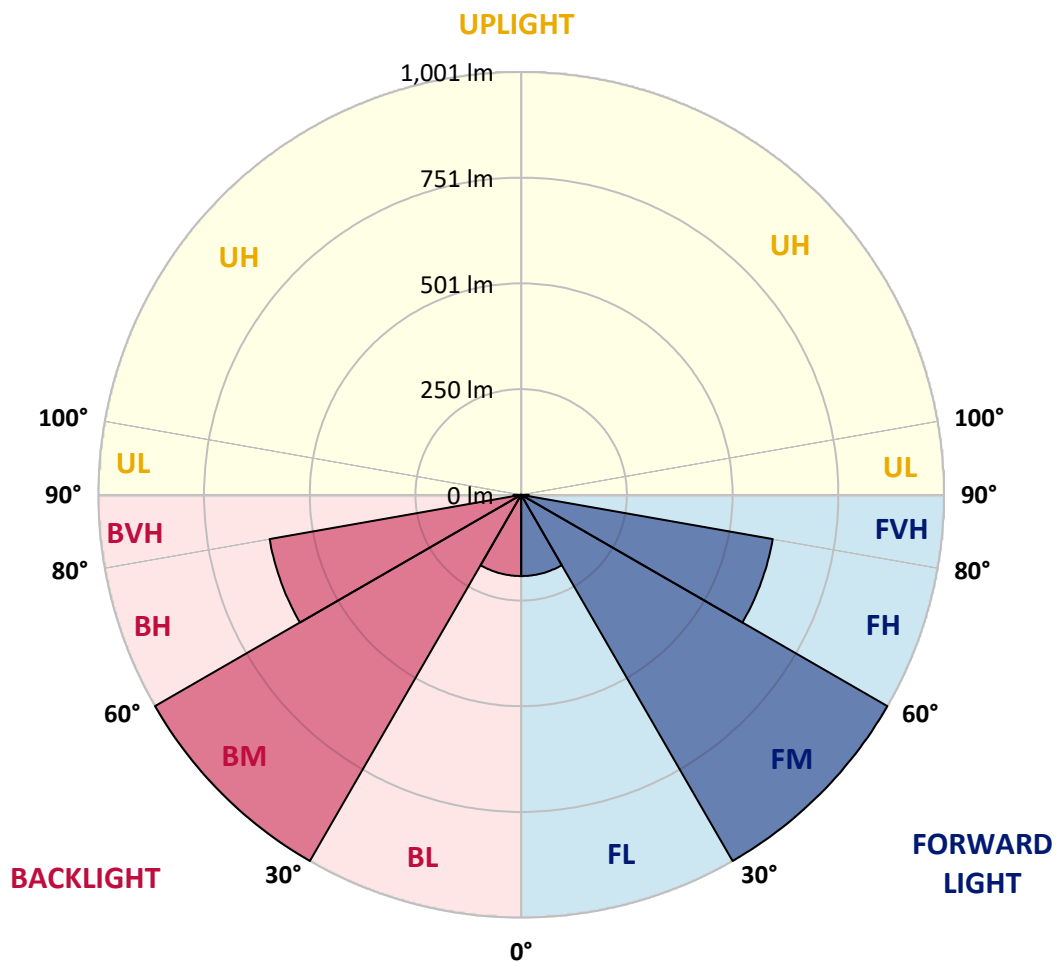
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.4	5.3			
FM	(30°-60°)	1001.4	27.6			
FH	(60°-80°)	605.0	16.6			G0/660
FVH	(80°-90°)	18.1	0.5			G1/100
BL	(0°-30°)	192.4	5.3	B1/500		
BM	(30°-60°)	1001.4	27.6	B2/2500		
BH	(60°-80°)	605.0	16.6	B2/1000		G2/1000
BVH	(80°-90°)	18.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1
2.5°	402.4	402.1	402.4	402.2	402.6	402.6	402.9	403.6	403.6	404.1	403.9
5°	398.4	398.3	398.8	399.3	399.8	400.9	401.9	403.4	404.6	405.5	406.3
7.5°	390.7	390.7	391.4	392.6	393.8	396.0	398.4	401.5	404.6	407.2	409.4
10°	384.4	384.7	385.6	387.6	389.7	393.1	396.4	400.9	405.1	409.4	412.9
12.5°	380.6	381.1	382.6	385.7	389.2	393.8	398.8	404.5	409.3	414.4	417.9
15°	381.8	382.1	384.4	388.1	392.6	398.4	405.1	411.8	417.5	423.0	427.6
17.5°	388.5	389.0	391.6	395.9	400.5	407.4	414.6	422.1	429.2	435.4	441.0
20°	400.5	401.0	404.3	408.9	414.4	421.5	428.7	436.6	444.5	451.0	457.4
22.5°	417.5	418.4	421.5	426.1	432.3	439.8	448.4	456.8	464.4	470.4	476.1
25°	439.8	441.7	444.6	449.8	456.3	463.2	472.5	481.1	488.3	493.9	498.1
27.5°	471.4	474.0	476.2	481.2	487.6	494.1	503.4	510.9	517.8	523.3	526.4
30°	513.3	515.9	518.2	523.0	528.8	535.0	543.7	550.4	554.7	559.0	558.9
32.5°	564.2	566.9	567.8	572.9	578.9	585.6	593.5	597.3	600.8	601.3	598.2
35°	621.0	622.4	625.8	632.7	639.6	645.1	652.6	654.5	654.5	651.9	645.1
37.5°	683.4	684.2	689.0	696.8	703.8	709.5	714.6	718.4	716.5	711.0	699.5
40°	751.7	753.3	760.1	767.0	774.9	780.2	785.7	786.4	784.5	776.5	760.8
42.5°	817.0	818.4	825.2	836.1	846.4	853.7	858.9	859.9	853.9	846.5	827.1
45°	873.1	876.8	885.7	898.4	913.3	923.8	930.9	933.8	928.4	918.8	896.3
47.5°	917.6	921.2	933.9	949.1	967.6	984.6	996.3	1002.5	1001.1	993.9	969.3
50°	950.3	953.7	967.4	986.0	1007.6	1028.7	1048.7	1063.4	1068.6	1065.3	1042.8
52.5°	954.0	959.7	975.8	1000.8	1028.9	1057.8	1086.1	1111.2	1128.2	1130.8	1114.1
55°	901.3	907.0	929.3	966.2	1008.1	1055.2	1100.5	1142.8	1176.3	1193.4	1184.7
57.5°	777.0	787.1	810.6	853.9	915.6	986.0	1058.3	1133.3	1201.5	1247.0	1255.8
60°	595.4	607.5	631.2	677.2	745.9	829.9	926.4	1037.3	1157.7	1260.1	1321.2
62.5°	382.0	393.3	418.2	458.2	514.2	605.2	708.8	840.5	1002.3	1163.9	1309.5
65°	196.3	202.5	215.5	239.8	283.4	351.4	444.3	575.7	760.7	960.0	1170.6
67.5°	124.3	125.5	128.5	131.9	143.1	166.6	209.9	291.8	444.0	651.9	898.4
70°	107.5	107.5	106.1	105.6	107.0	110.3	117.0	136.0	187.4	309.5	518.2
72.5°	98.4	97.4	95.0	93.1	92.7	92.7	94.1	97.0	105.3	126.1	202.8
75°	90.7	87.8	84.5	82.3	81.4	80.5	80.4	80.9	82.6	85.9	96.9
77.5°	81.2	77.5	73.7	71.4	70.4	69.2	68.2	67.0	66.1	67.2	72.0
80°	69.9	65.6	62.7	61.3	60.3	58.6	56.3	54.3	52.4	52.0	55.0
82.5°	56.3	51.4	51.5	52.0	50.1	47.7	45.3	43.1	39.8	38.1	39.8
85°	45.5	42.9	41.7	45.0	42.2	38.6	34.9	30.9	25.8	21.6	23.5
87.5°	17.7	17.7	26.4	40.7	36.6	29.9	25.6	21.8	13.6	10.5	10.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1
2.5°	403.8	404.1	403.9	403.8	403.8	403.6	403.8	403.8
5°	406.9	407.7	407.7	408.1	408.1	408.2	408.4	408.2
7.5°	411.5	413.0	414.1	415.3	415.4	415.6	416.0	415.6
10°	416.1	419.2	421.5	423.7	424.7	425.1	425.4	425.4
12.5°	422.0	426.3	430.2	434.2	436.1	437.1	437.1	437.8
15°	431.6	435.9	440.5	445.8	449.1	450.8	451.3	451.3
17.5°	445.2	448.9	452.9	458.0	462.2	464.4	464.9	464.7
20°	461.0	464.6	466.8	470.1	473.7	476.2	476.9	476.9
22.5°	479.0	481.1	481.4	482.4	485.3	488.8	490.3	490.7
25°	498.9	499.4	498.1	498.1	499.9	503.2	504.8	504.9
27.5°	524.7	522.1	518.7	517.5	518.7	522.4	524.3	525.0
30°	556.8	550.6	542.7	538.4	537.7	542.7	546.1	546.7
32.5°	593.5	584.6	574.1	565.4	563.1	566.2	570.4	570.2
35°	637.2	626.5	613.8	602.6	597.5	600.6	606.4	607.1
37.5°	687.5	673.6	659.0	644.9	636.8	637.7	643.9	645.9
40°	743.7	725.6	707.2	688.4	676.8	674.6	682.2	683.4
42.5°	803.8	780.6	757.4	734.0	719.3	715.8	724.6	724.1
45°	867.8	838.3	811.1	785.4	767.9	762.7	769.9	769.9
47.5°	936.7	900.3	868.0	838.8	819.7	812.3	819.2	819.7
50°	1009.7	971.0	933.1	900.6	877.8	868.3	877.3	878.6
52.5°	1082.3	1044.7	1006.4	969.3	941.7	930.2	940.5	944.9
55°	1156.0	1119.1	1082.5	1046.3	1013.5	999.9	1010.9	1016.6
57.5°	1233.8	1199.6	1164.8	1128.2	1096.6	1075.5	1087.1	1094.7
60°	1325.0	1295.8	1259.6	1219.2	1187.3	1165.8	1172.5	1179.2
62.5°	1397.1	1408.5	1377.7	1331.0	1290.0	1262.5	1269.0	1276.1
65°	1362.3	1478.5	1505.9	1458.6	1401.8	1359.0	1356.3	1359.9
67.5°	1138.7	1364.5	1529.2	1574.2	1526.6	1467.2	1456.2	1461.5
70°	761.7	1043.0	1333.6	1550.0	1607.5	1584.5	1573.7	1577.0
72.5°	365.8	607.5	904.7	1192.4	1367.6	1448.0	1473.7	1486.3
75°	133.8	241.1	436.1	657.1	793.3	918.3	999.9	1033.2
77.5°	80.7	97.4	139.3	209.7	237.5	265.9	254.9	260.4
80°	59.8	67.5	76.4	85.9	89.0	89.0	85.5	82.8
82.5°	41.9	46.9	51.2	56.3	57.7	55.1	45.3	36.1
85°	27.0	29.2	31.1	34.3	33.5	31.9	21.5	19.1
87.5°	12.4	14.1	14.8	16.3	15.6	14.9	10.6	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)