

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: P200059

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-5MQ-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4501 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

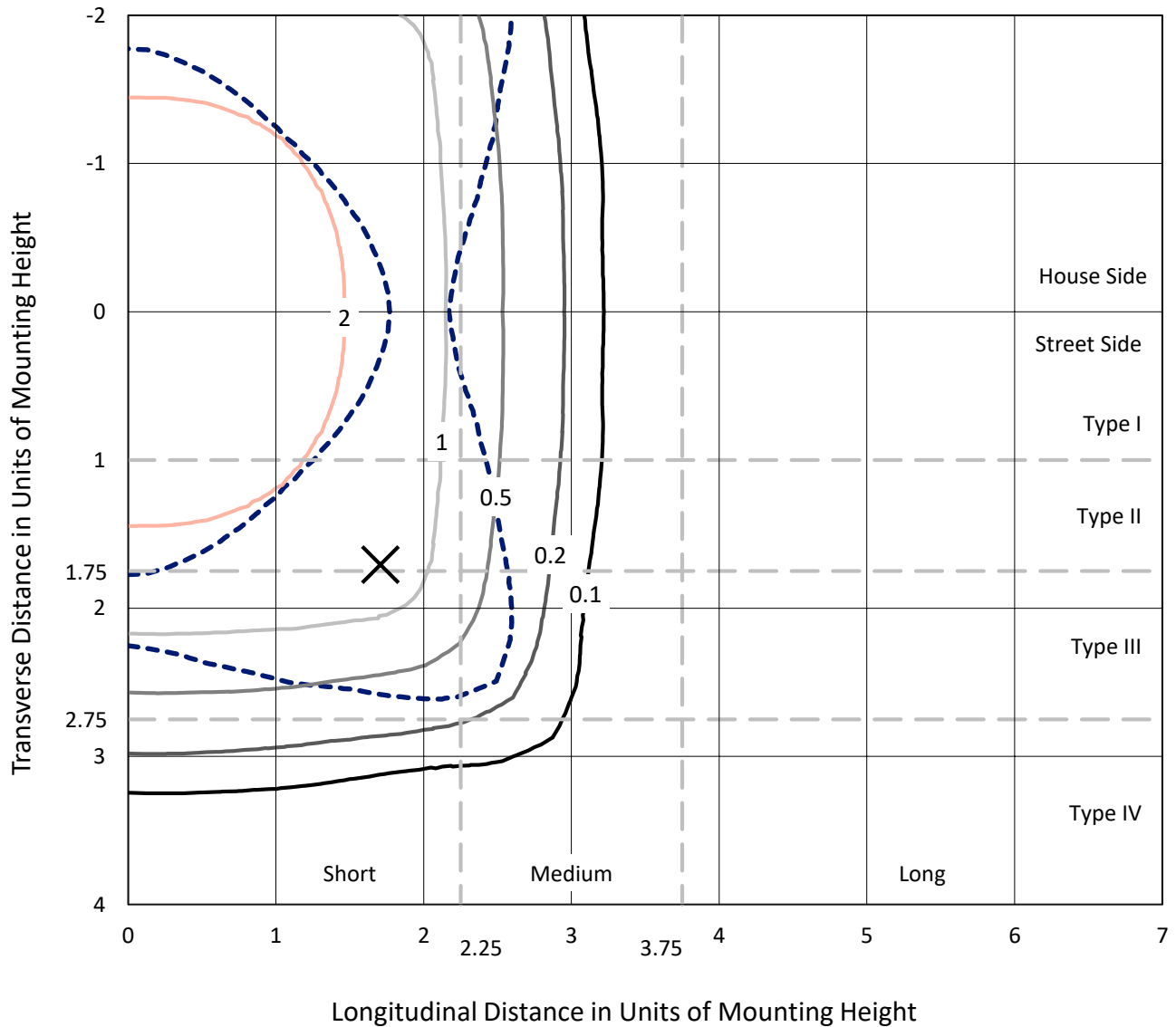
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

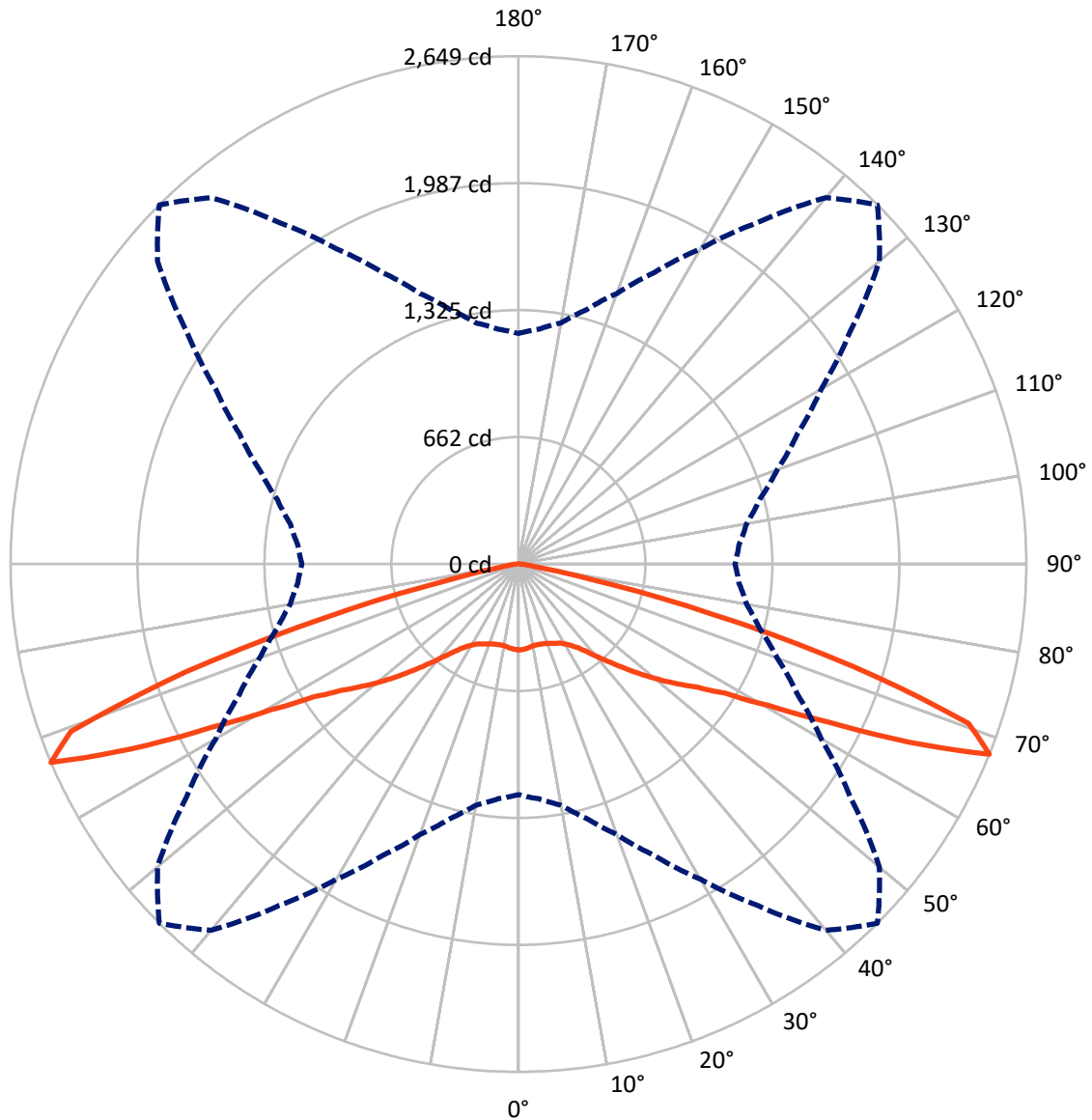
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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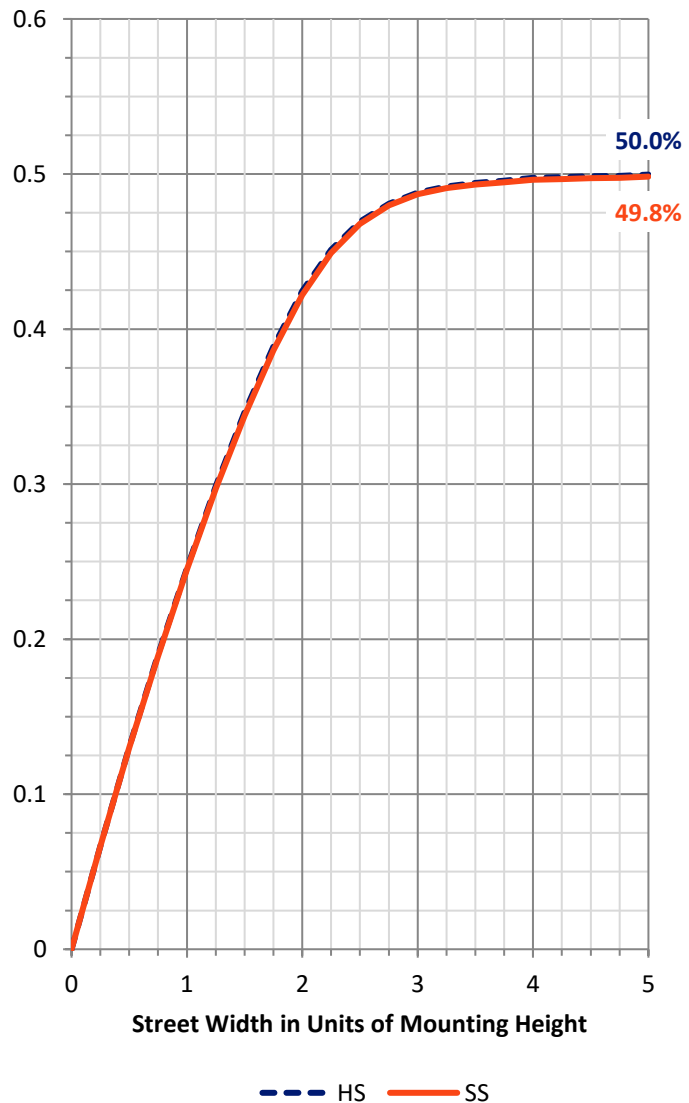
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2250.5	0.0	2250.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2250.5	0.0	2250.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4501.0	0.0	4501.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	0.9
10°-20°	121.8	2.7
20°-30°	207.1	4.6
30°-40°	338.5	7.5
40°-50°	604.4	13.4
50°-60°	1019.0	22.6
60°-70°	1581.3	35.1
70°-80°	555.6	12.3
80°-90°	31.4	0.7
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°	4501.0	100.0
0°-180°	4501.0	100.0



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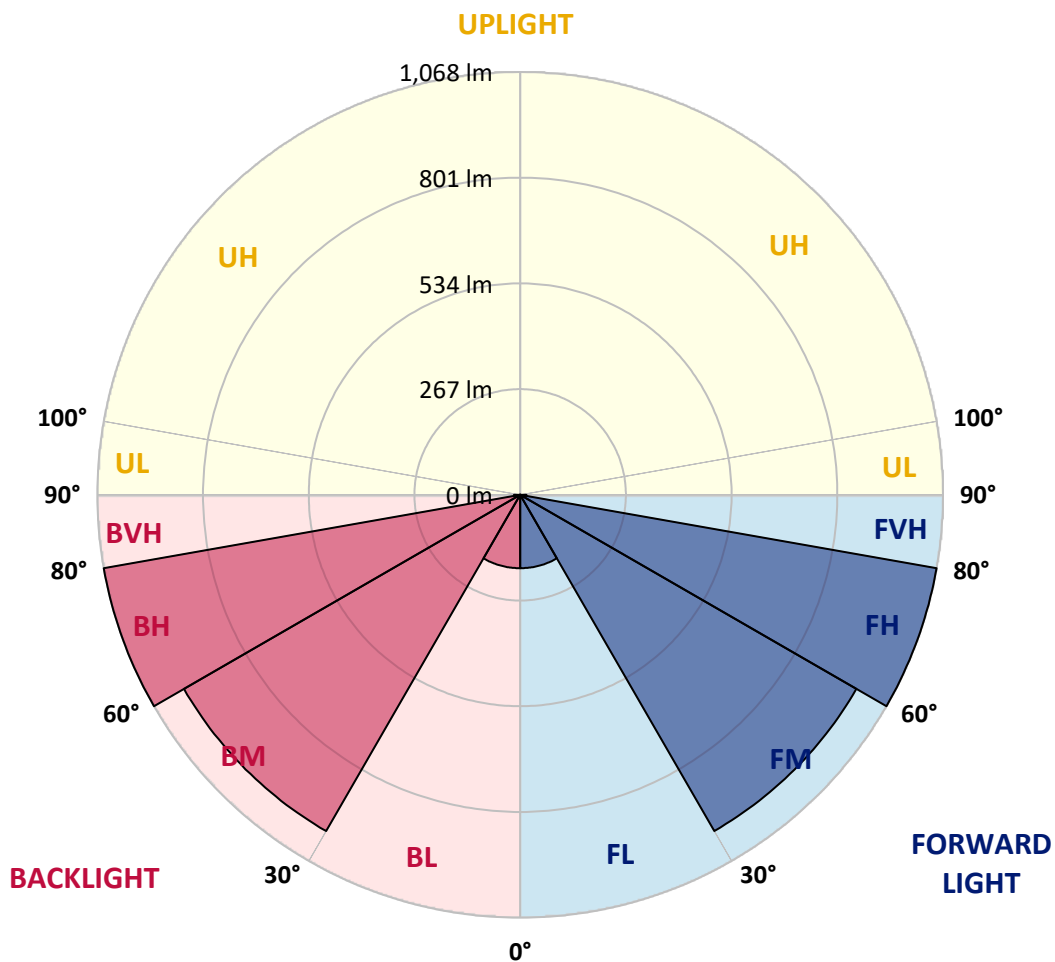
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	185.5	4.1			
FM	(30°-60°)	980.9	21.8			
FH	(60°-80°)	1068.4	23.7			G1/1800
FVH	(80°-90°)	15.7	0.3			G1/100
BL	(0°-30°)	185.5	4.1	B1/500		
BM	(30°-60°)	980.9	21.8	B1/1000		
BH	(60°-80°)	1068.4	23.7	B3/2500		G1/1800
BVH	(80°-90°)	15.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	448.6	448.6	448.6	448.6	448.6	448.6	448.6	448.6	448.6	448.6	448.6
2.5°	446.9	447.3	447.3	447.3	447.1	447.1	446.7	447.1	446.9	446.3	446.5
5°	443.1	443.6	443.6	443.3	444.0	443.8	443.1	443.6	443.3	442.9	443.1
7.5°	437.8	438.4	438.4	438.2	438.8	438.6	438.2	438.4	438.4	437.8	437.8
10°	431.8	432.2	432.2	432.0	433.0	433.0	432.8	433.4	433.6	433.0	432.6
12.5°	426.2	426.8	426.8	427.6	428.7	429.1	430.2	431.0	431.8	431.6	430.8
15°	422.9	423.3	424.1	425.1	426.8	428.2	429.9	431.8	433.4	433.8	432.6
17.5°	420.8	421.5	422.7	424.1	426.4	428.9	431.4	433.8	436.1	436.9	435.5
20°	420.2	420.6	421.9	424.3	427.4	431.2	434.7	437.6	440.7	441.7	440.7
22.5°	421.5	422.3	423.7	426.6	430.8	435.5	439.7	443.6	447.5	449.4	448.0
25°	427.0	427.8	429.7	433.4	438.0	442.9	447.7	452.2	455.8	457.7	456.6
27.5°	437.4	438.4	440.7	444.4	449.4	454.7	459.9	463.6	466.6	467.2	466.0
30°	452.9	455.2	457.9	462.0	467.8	472.3	477.5	480.8	484.4	484.4	483.3
32.5°	477.1	479.4	482.3	486.2	490.8	495.7	500.3	503.2	506.9	507.1	504.6
35°	513.3	514.3	516.9	519.4	523.4	527.8	531.7	533.6	536.7	536.9	534.7
37.5°	561.2	561.4	563.0	563.9	567.5	572.3	576.0	577.3	580.2	579.8	577.5
40°	616.8	617.9	618.5	619.7	623.7	628.2	632.2	632.8	635.9	635.3	632.4
42.5°	681.2	681.6	685.2	687.0	690.7	692.9	698.0	698.6	702.4	700.6	697.3
45°	753.4	757.2	760.5	764.2	768.1	770.8	774.8	774.0	776.4	774.0	772.0
47.5°	829.4	832.1	839.5	845.4	851.7	854.1	859.6	857.1	859.6	856.1	855.5
50°	913.0	917.8	924.2	930.8	937.6	941.4	948.6	945.5	948.8	945.5	943.7
52.5°	995.4	996.7	1010.7	1020.5	1030.0	1034.3	1038.7	1037.2	1037.4	1037.2	1035.3
55°	1073.7	1076.6	1090.6	1103.9	1120.4	1132.6	1140.1	1139.3	1137.4	1135.6	1132.4
57.5°	1161.9	1164.7	1180.9	1197.3	1216.1	1233.5	1248.5	1264.1	1270.1	1271.7	1264.9
60°	1281.0	1280.8	1302.3	1322.3	1349.2	1375.1	1408.1	1441.8	1480.6	1498.6	1474.8
62.5°	1402.4	1407.3	1438.4	1473.6	1529.0	1583.0	1644.1	1704.1	1765.4	1815.3	1762.3
65°	1387.8	1406.9	1453.1	1532.8	1635.2	1756.9	1888.6	2027.9	2153.7	2240.3	2143.2
67.5°	1202.8	1229.9	1276.9	1373.8	1501.9	1677.4	1898.5	2174.0	2494.2	2649.0	2457.1
70°	871.9	902.4	951.8	1046.3	1173.2	1340.1	1580.2	1910.9	2334.8	2490.9	2279.5
72.5°	433.8	450.4	480.8	541.0	637.1	772.4	990.2	1308.1	1683.3	1826.5	1633.3
75°	147.4	155.1	160.2	179.8	210.3	263.5	371.7	571.9	872.5	1045.9	860.0
77.5°	85.1	85.3	88.8	92.3	97.5	103.3	117.7	154.7	267.4	379.8	276.7
80°	55.0	54.8	57.8	60.5	63.9	66.9	67.7	71.6	82.6	97.9	87.6
82.5°	28.5	32.1	38.5	42.0	48.7	49.9	48.2	46.7	49.5	51.4	52.6
85°	15.8	13.7	20.5	26.5	29.4	29.8	29.8	28.1	29.2	28.5	31.1
87.5°	7.3	6.6	8.1	13.0	13.9	11.8	12.4	10.9	7.9	7.7	8.7
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°	448.6	448.6	448.6	448.6	448.6	448.6	448.6	448.6
2.5°	446.5	446.7	446.7	447.3	447.5	448.0	448.4	448.6
5°	442.9	443.6	443.1	443.8	443.8	444.2	444.2	444.4
7.5°	437.8	438.4	438.4	438.4	438.2	438.8	438.8	438.8
10°	432.4	432.8	432.6	432.2	431.8	432.4	432.2	432.0
12.5°	430.8	429.7	428.9	428.5	427.6	427.8	427.2	427.2
15°	431.8	429.9	428.5	427.8	427.0	426.6	426.2	426.4
17.5°	434.4	432.2	430.4	429.3	428.2	427.6	426.8	427.0
20°	439.3	436.5	433.8	431.8	429.9	428.9	428.2	428.0
22.5°	446.3	442.3	438.4	435.3	432.8	431.4	430.8	430.4
25°	454.3	450.0	445.4	441.9	439.5	437.6	436.3	436.3
27.5°	464.5	460.9	456.8	452.7	450.4	448.6	447.7	447.3
30°	481.5	478.1	474.9	470.9	468.0	466.2	464.7	463.4
32.5°	503.2	500.5	497.8	494.9	492.2	489.7	487.4	486.4
35°	533.8	531.7	529.9	526.6	525.6	524.1	522.8	521.8
37.5°	576.0	575.2	575.2	571.7	570.9	570.3	569.0	569.2
40°	631.6	632.4	631.3	630.0	629.4	627.8	627.8	629.2
42.5°	697.1	697.8	700.0	698.0	700.2	698.2	696.9	698.0
45°	773.4	775.6	780.1	778.1	779.5	776.0	771.6	771.8
47.5°	858.8	860.8	862.8	861.3	861.5	855.7	849.9	848.4
50°	947.6	948.4	949.5	947.4	947.8	941.4	934.8	935.0
52.5°	1035.3	1039.3	1043.4	1037.9	1036.6	1029.4	1020.0	1016.3
55°	1135.8	1141.3	1136.6	1126.9	1117.1	1107.3	1095.2	1093.1
57.5°	1259.6	1250.0	1235.1	1216.7	1203.2	1189.6	1177.1	1172.0
60°	1431.7	1395.9	1369.0	1341.7	1324.5	1307.7	1291.4	1288.9
62.5°	1675.2	1613.3	1559.7	1503.1	1457.0	1421.0	1392.2	1384.2
65°	1980.2	1833.9	1707.0	1588.6	1485.7	1408.1	1359.3	1337.7
67.5°	2111.5	1822.5	1605.0	1436.9	1302.3	1208.4	1155.6	1129.3
70°	1855.4	1511.4	1274.8	1106.5	984.0	883.8	836.1	807.8
72.5°	1276.5	961.5	760.3	620.5	522.6	438.8	405.7	403.2
75°	573.2	379.6	261.7	201.6	169.7	147.6	140.8	135.5
77.5°	160.4	118.6	105.8	98.9	92.3	84.7	81.7	82.3
80°	78.1	73.7	70.8	66.5	60.5	54.0	51.1	52.4
82.5°	51.8	51.1	53.0	49.9	41.2	35.0	29.4	26.9
85°	31.5	31.9	32.5	32.7	27.7	19.4	13.2	14.9
87.5°	12.4	14.3	15.5	16.2	15.1	9.3	7.5	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)