

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: P200188

Luminaire Tested: **GWC-AF-02-LED-E1-T3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8374.9 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

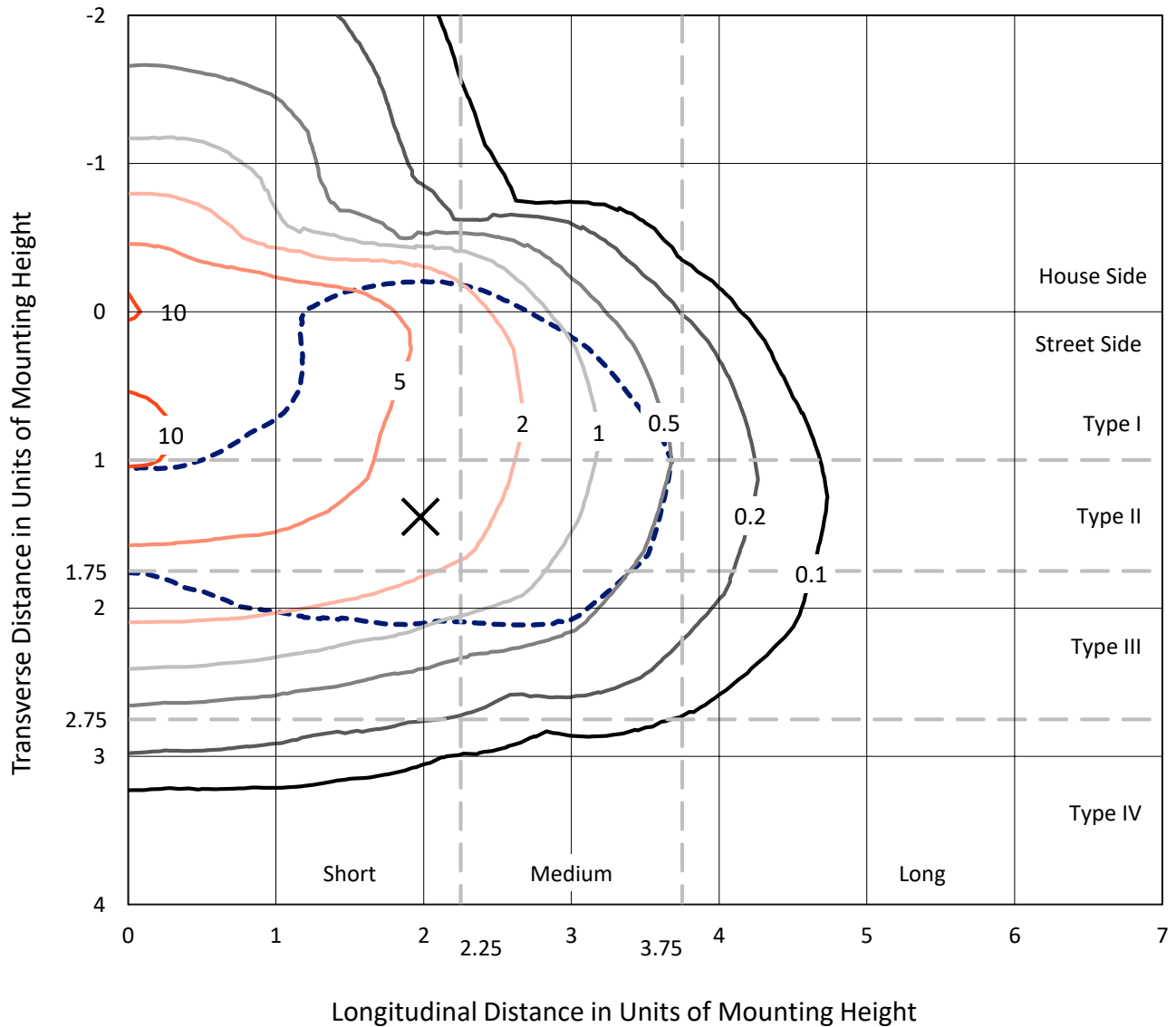
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

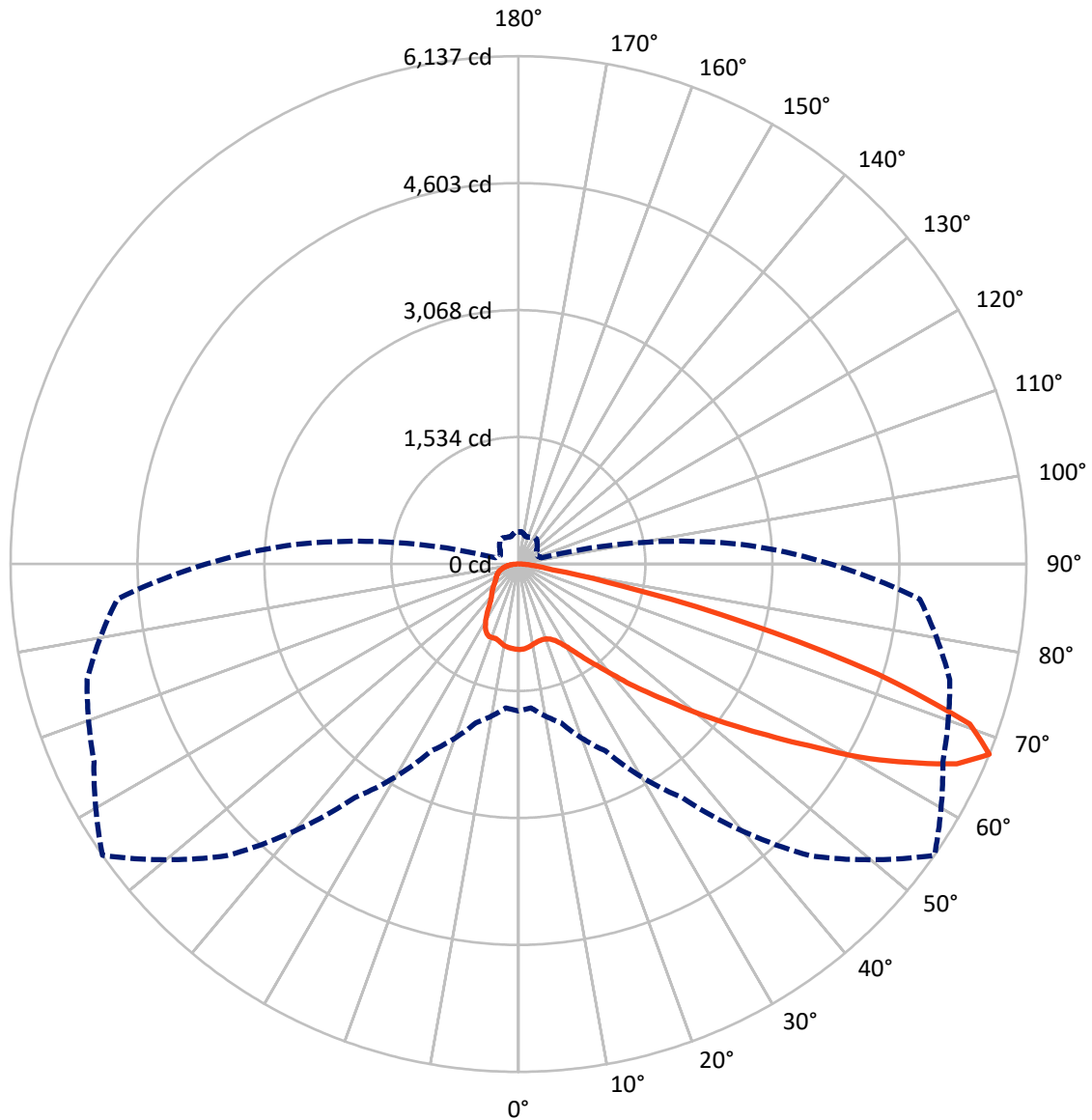
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.2	0.0	1809.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6565.8	0.0	6565.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	8374.9	0.0	8374.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	1.2
10°-20°	273.0	3.3
20°-30°	457.3	5.5
30°-40°	752.0	9.0
40°-50°	1265.9	15.1
50°-60°	1992.4	23.8
60°-70°	2377.7	28.4
70°-80°	1021.0	12.2
80°-90°	139.2	1.7
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°	8374.9	100.0
0°-180°	8374.9	100.0



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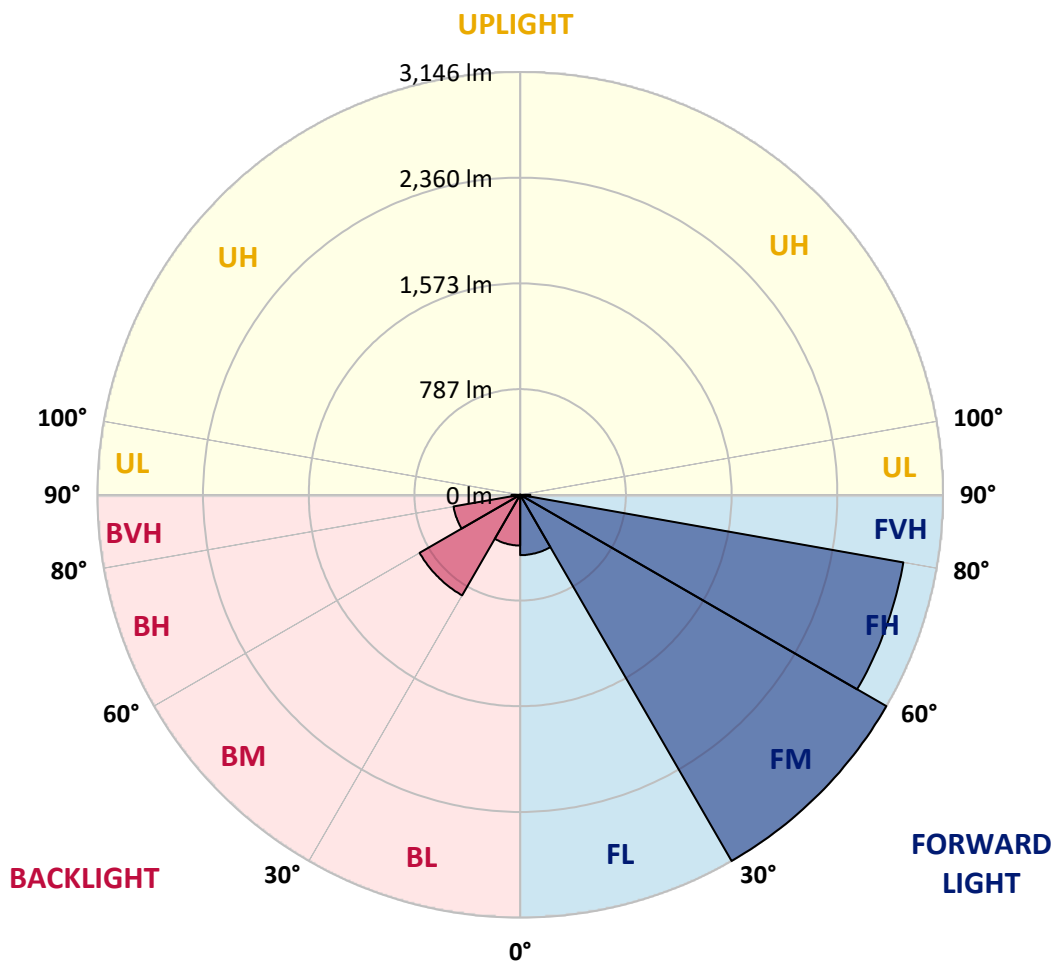
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.9	5.4			
FM (30°-60°)	3146.2	37.6			
FH (60°-80°)	2895.2	34.6			G2/5000
FVH (80°-90°)	75.4	0.9			G1/100
BL (0°-30°)	377.8	4.5	B1/500		
BM (30°-60°)	864.0	10.3	B1/1000		
BH (60°-80°)	503.5	6.0	B2/1000		G2/1000
BVH (80°-90°)	63.9	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1023.8	1024.2	1025.0	1028.3	1031.1	1030.3	1030.7	1029.1	1028.7	1026.2	1028.7
5°	1010.9	1012.1	1012.5	1017.7	1021.0	1021.8	1020.6	1018.6	1016.1	1013.7	1014.9
7.5°	981.3	984.6	985.0	992.3	997.5	1004.4	1004.8	1005.3	1004.0	1002.4	1004.8
10°	962.7	963.5	963.1	968.4	972.4	980.1	984.6	992.3	995.5	996.4	997.9
12.5°	961.5	960.8	959.5	959.5	958.3	961.5	969.7	980.5	988.2	990.6	992.7
15°	974.5	974.1	970.1	963.9	956.3	953.8	960.8	972.8	983.0	988.2	990.2
17.5°	1003.6	1001.2	994.7	980.9	964.3	957.9	958.7	968.8	980.5	987.5	989.4
20°	1057.0	1057.0	1043.2	1017.3	987.9	972.4	965.2	971.2	982.5	991.9	994.7
22.5°	1149.2	1150.0	1127.0	1084.5	1034.7	1002.0	983.8	982.5	995.9	1006.4	1009.7
25°	1279.9	1276.6	1244.3	1183.6	1108.0	1053.7	1022.2	1014.9	1026.2	1038.0	1042.0
27.5°	1431.9	1420.3	1381.8	1308.6	1210.7	1131.4	1082.9	1071.1	1082.1	1095.4	1099.5
30°	1582.4	1570.3	1524.6	1444.5	1335.7	1235.4	1165.8	1146.8	1162.2	1181.2	1183.6
32.5°	1732.9	1732.9	1681.9	1588.5	1470.0	1359.6	1276.2	1253.6	1279.1	1302.1	1307.3
35°	1912.9	1913.7	1864.4	1751.9	1624.5	1507.6	1415.8	1399.2	1437.7	1453.8	1466.4
37.5°	2134.2	2138.7	2075.2	1939.2	1799.7	1676.7	1567.5	1544.9	1583.2	1627.3	1667.8
40°	2373.2	2379.0	2308.9	2141.4	2001.9	1873.3	1755.2	1714.4	1778.2	1862.4	1914.6
42.5°	2601.4	2630.5	2563.0	2390.6	2240.6	2107.5	1987.8	1928.3	2008.4	2135.4	2180.7
45°	2931.1	2952.1	2834.4	2678.3	2537.1	2388.3	2229.6	2166.9	2279.0	2439.2	2448.5
47.5°	3150.7	3134.9	3075.1	2978.0	2888.6	2749.5	2510.8	2442.0	2590.9	2779.4	2727.2
50°	3267.6	3272.5	3264.4	3270.1	3273.3	3185.9	2855.5	2761.1	2938.7	3166.5	3046.3
52.5°	3376.9	3344.5	3371.2	3503.9	3664.1	3631.7	3230.4	3132.2	3311.7	3596.1	3383.7
55°	3374.4	3325.1	3412.1	3646.3	3993.7	4030.9	3651.5	3538.3	3706.2	4056.8	3741.3
57.5°	3255.1	3257.5	3391.4	3698.1	4223.5	4406.4	4140.2	3970.3	4124.4	4523.7	4067.8
60°	3090.8	3113.1	3306.1	3689.6	4407.6	4714.2	4739.6	4435.8	4534.1	4948.0	4337.9
62.5°	2825.9	2849.3	3115.5	3601.4	4379.7	5010.7	5281.7	4964.2	4962.5	5205.3	4417.3
65°	2408.0	2401.2	2680.7	3271.7	4145.4	5229.9	5820.1	5420.8	5285.4	5209.3	4257.9
67.5°	1775.8	1745.1	1984.9	2491.8	3445.6	4984.4	6136.9	5658.7	5395.3	4866.7	3770.8
70°	921.5	890.7	1084.9	1455.0	2266.0	3890.2	5786.1	5535.7	5152.3	4079.5	2954.2
72.5°	394.0	388.7	467.6	638.3	1096.2	2243.8	4537.0	4791.4	4420.9	3039.5	2031.1
75°	264.9	263.3	292.9	347.9	493.1	910.5	2839.3	3401.1	3234.5	1884.6	1142.3
77.5°	208.0	205.9	223.3	250.0	319.6	359.2	1260.1	1826.0	1690.0	820.3	500.0
80°	162.6	161.0	172.0	186.5	229.8	226.5	414.6	726.5	562.3	314.4	243.2
82.5°	128.3	128.3	137.2	137.5	163.1	154.6	216.5	320.0	280.7	183.2	148.8
85°	117.3	117.3	126.6	102.7	106.4	97.5	134.3	189.8	178.0	75.3	64.8
87.5°	59.0	57.5	106.4	91.0	57.8	51.8	65.6	91.9	98.7	41.6	32.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1027.9	1027.5	1028.3	1028.7	1032.0	1036.4	1038.4	1041.3	1042.8	1042.0
5°	1015.7	1016.5	1019.8	1022.2	1027.9	1035.1	1039.2	1042.4	1045.3	1044.0
7.5°	1005.7	1007.6	1012.5	1014.6	1017.7	1019.8	1019.4	1020.6	1023.1	1020.2
10°	999.9	1002.4	1006.0	1003.2	995.5	984.6	974.5	969.2	970.8	968.8
12.5°	994.3	997.5	994.7	981.3	959.9	945.7	938.0	938.9	942.5	943.4
15°	991.0	992.3	980.1	955.0	933.2	931.2	935.2	934.5	934.9	934.9
17.5°	991.0	987.9	965.2	940.1	930.8	927.1	914.6	898.9	891.9	889.6
20°	996.4	987.9	960.3	943.8	923.5	892.3	859.2	830.0	817.1	813.5
22.5°	1012.1	997.5	974.1	945.3	887.9	835.8	783.2	748.4	724.9	720.9
25°	1044.0	1027.9	1001.2	923.9	831.2	756.9	696.9	658.2	634.6	631.5
27.5°	1099.9	1089.3	1015.7	876.6	756.1	676.4	620.9	591.0	573.6	572.3
30°	1184.0	1178.7	1008.4	806.6	663.4	598.2	571.6	554.1	541.2	540.8
32.5°	1318.3	1275.8	984.6	721.3	578.9	542.9	531.9	521.4	511.3	511.3
35°	1491.1	1354.3	939.3	629.8	527.4	512.1	498.4	481.8	468.4	467.6
37.5°	1694.1	1402.9	857.9	556.2	503.2	491.5	471.3	446.6	423.1	419.1
40°	1899.2	1417.4	743.5	510.9	487.8	470.9	446.2	417.1	394.3	393.2
42.5°	2087.2	1389.5	622.2	479.8	472.5	449.8	423.9	398.0	380.2	379.8
45°	2245.1	1317.0	520.2	450.2	456.3	430.8	407.7	386.7	373.0	370.1
47.5°	2393.5	1214.8	448.6	419.1	440.1	420.3	400.9	381.0	367.8	365.7
50°	2565.8	1104.3	398.4	388.7	426.0	416.6	406.5	385.9	363.7	361.2
52.5°	2774.5	1008.8	359.2	362.0	415.0	421.5	421.0	399.7	360.8	357.6
55°	3007.6	902.9	329.7	340.2	410.6	430.4	424.7	412.6	363.2	358.4
57.5°	3236.9	779.1	309.0	323.6	404.1	429.6	407.3	389.9	368.9	362.0
60°	3408.8	612.8	293.3	309.0	389.9	416.2	388.3	365.3	367.8	362.4
62.5°	3420.1	473.7	274.3	296.6	368.5	402.9	375.8	354.4	373.0	368.1
65°	3219.1	358.0	256.0	281.5	345.5	394.3	363.7	348.3	383.9	378.6
67.5°	2710.2	288.0	240.7	266.2	322.4	376.7	352.7	342.6	393.6	384.3
70°	1956.6	245.5	225.8	247.6	301.8	356.4	343.0	332.5	367.3	352.7
72.5°	1204.6	212.8	208.7	222.9	286.0	335.3	328.5	313.5	330.9	319.2
75°	601.5	184.4	189.8	198.7	263.7	311.5	304.2	289.2	291.6	289.2
77.5°	288.0	157.7	167.5	174.3	235.0	284.4	276.7	261.4	258.5	258.9
80°	182.4	131.9	141.2	146.1	209.9	252.8	245.1	229.8	262.1	243.2
82.5°	114.1	107.2	109.7	118.6	182.8	220.0	209.9	196.2	236.2	186.9
85°	63.1	74.9	78.1	85.7	140.8	184.0	173.9	156.5	140.3	137.9
87.5°	37.6	44.5	45.7	51.4	94.6	133.1	117.7	111.6	92.7	92.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)