

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: P270231

Luminaire Tested: **GWC-AF-02-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270231
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-T3-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8722.4 lumens
Efficiency: N/A
Efficacy: 101.4 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

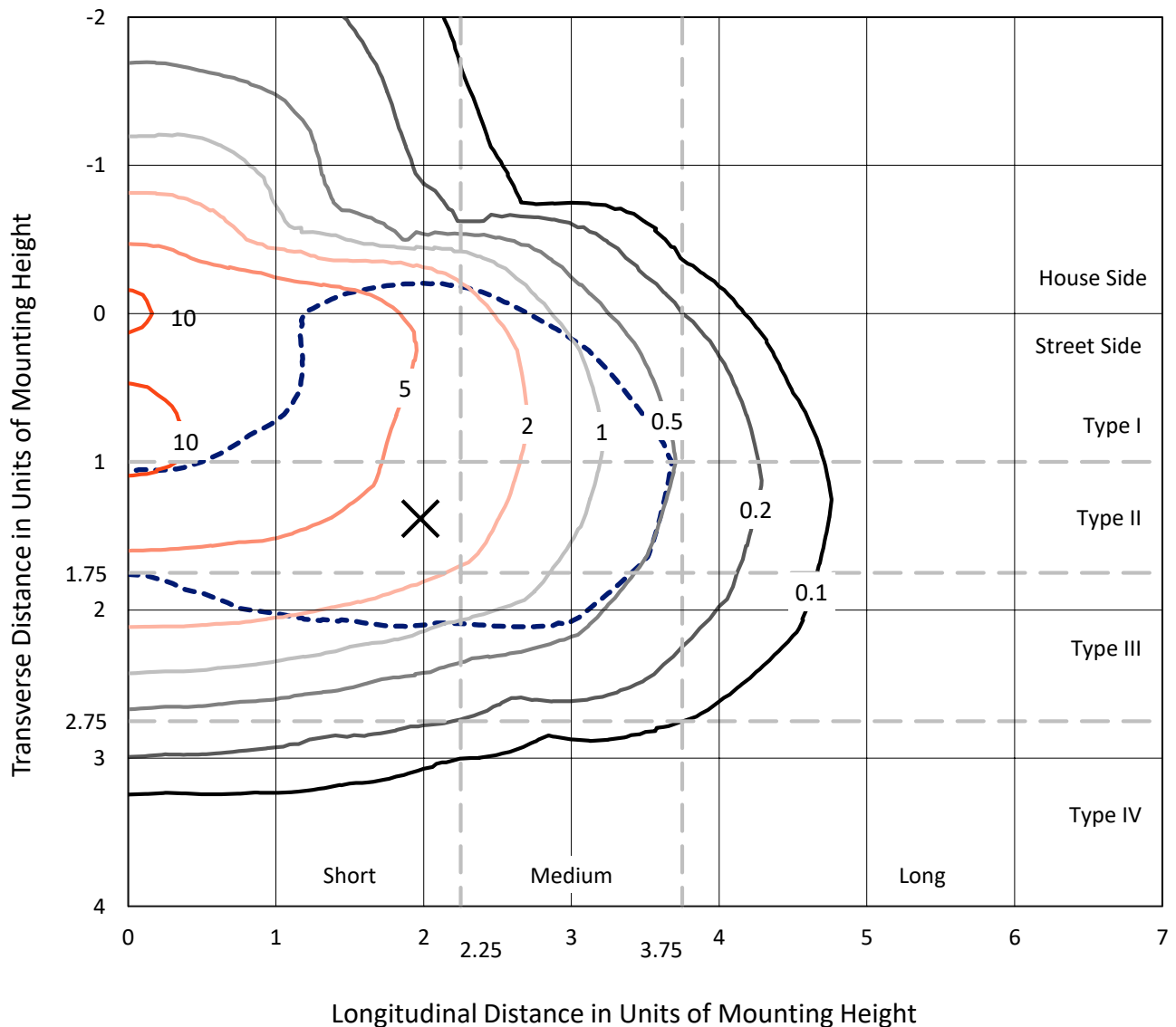
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

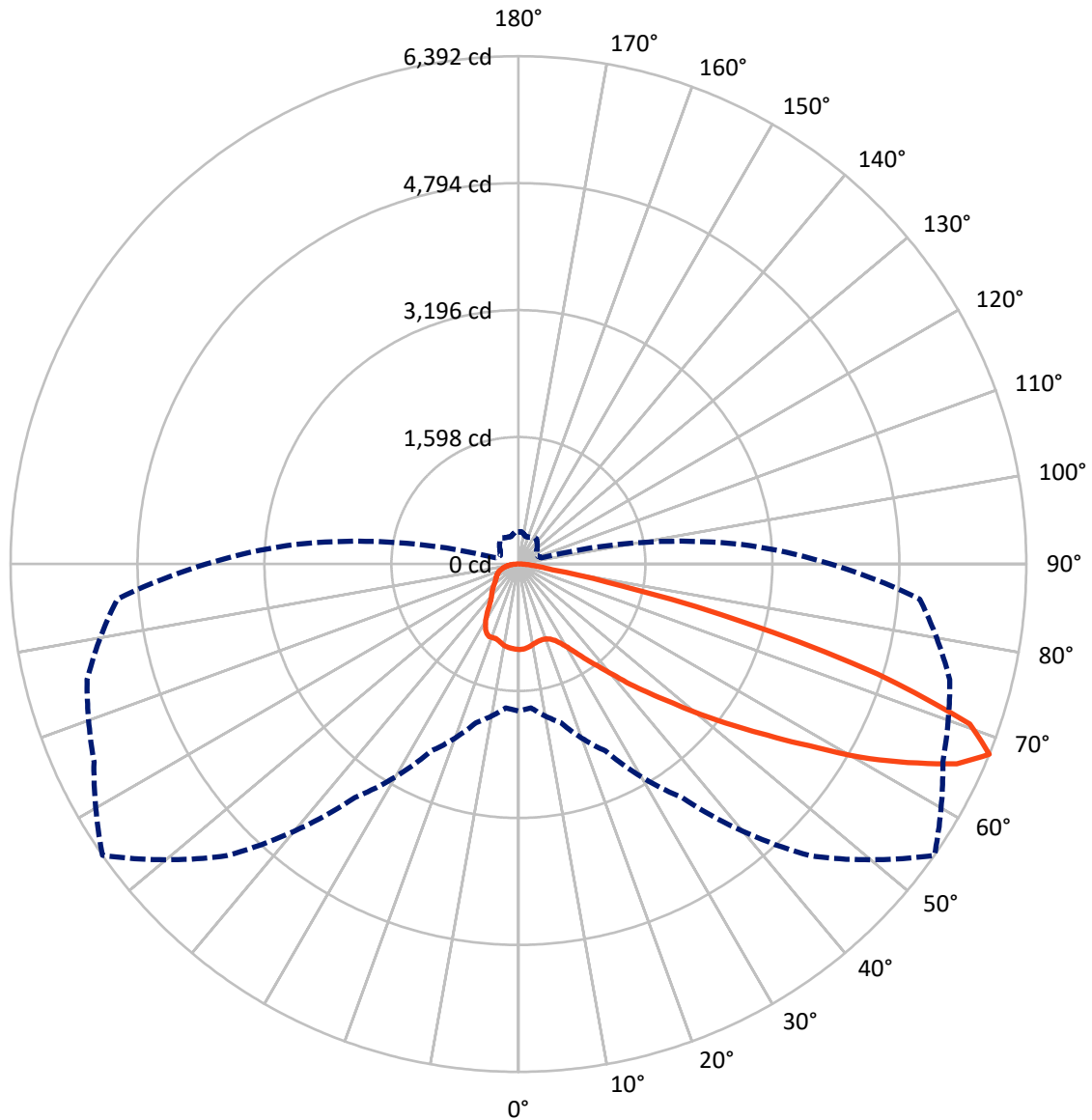
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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	1884.2	0.0	1884.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6838.2	0.0	6838.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	8722.4	0.0	8722.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.2
10°-20°	284.3	3.3
20°-30°	476.3	5.5
30°-40°	783.2	9.0
40°-50°	1318.4	15.1
50°-60°	2075.1	23.8
60°-70°	2476.4	28.4
70°-80°	1063.4	12.2
80°-90°	145.0	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°	8722.4	100.0
0°-180°	8722.4	100.0



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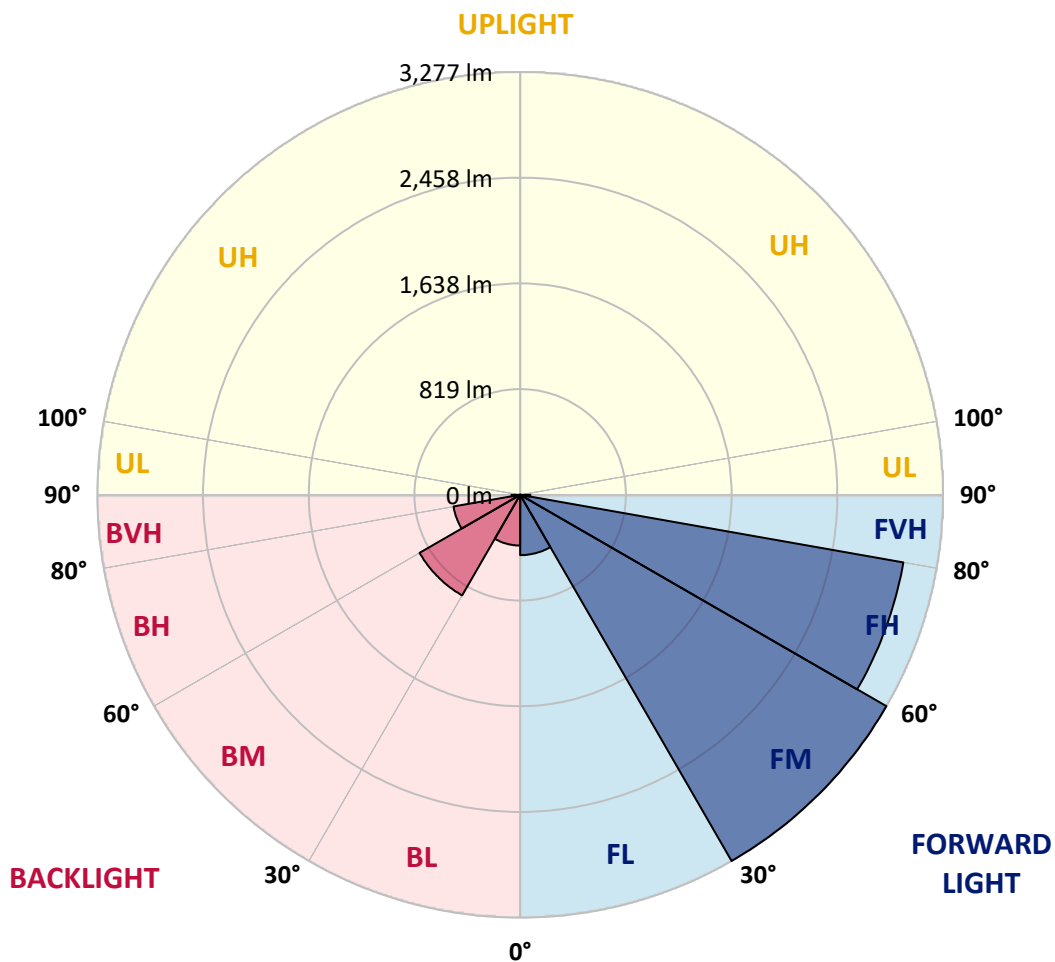
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.5	5.4			
FM	(30°-60°)	3276.8	37.6			
FH	(60°-80°)	3015.4	34.6			G2/5000
FVH	(80°-90°)	78.5	0.9			G1/100
BL	(0°-30°)	393.5	4.5	B1/500		
BM	(30°-60°)	899.9	10.3	B1/1000		
BH	(60°-80°)	524.4	6.0	B2/1000		G2/1000
BVH	(80°-90°)	66.5	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°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1066.3	1066.7	1067.5	1070.9	1073.8	1073.0	1073.5	1071.8	1071.4	1068.9	1071.4
5°	1052.9	1054.2	1054.5	1060.0	1063.4	1064.2	1063.0	1060.8	1058.4	1055.8	1057.0
7.5°	1022.0	1025.4	1025.9	1033.4	1038.9	1046.0	1046.4	1047.0	1045.6	1044.0	1046.4
10°	1002.7	1003.5	1003.0	1008.5	1012.7	1020.8	1025.4	1033.4	1036.9	1037.6	1039.2
12.5°	1001.4	1000.6	999.4	999.4	998.0	1001.4	1009.9	1021.3	1029.2	1031.8	1033.9
15°	1014.9	1014.5	1010.2	1003.9	996.0	993.4	1000.6	1013.2	1023.8	1029.2	1031.3
17.5°	1045.3	1042.8	1035.9	1021.6	1004.3	997.7	998.5	1008.9	1021.3	1028.4	1030.4
20°	1100.9	1100.9	1086.5	1059.6	1028.7	1012.7	1005.3	1011.5	1023.3	1033.1	1035.9
22.5°	1196.9	1197.7	1173.7	1129.4	1077.6	1043.6	1024.5	1023.3	1037.3	1048.2	1051.6
25°	1332.9	1329.6	1296.0	1232.7	1154.0	1097.5	1064.6	1057.0	1068.9	1081.0	1085.2
27.5°	1491.4	1479.1	1439.2	1362.9	1261.0	1178.3	1127.8	1115.5	1127.0	1140.8	1145.1
30°	1648.1	1635.5	1587.8	1504.4	1391.1	1286.6	1214.1	1194.3	1210.3	1230.1	1232.7
32.5°	1804.9	1804.9	1751.8	1654.4	1531.0	1416.0	1329.2	1305.5	1332.1	1356.1	1361.7
35°	1992.4	1993.2	1941.7	1824.6	1692.0	1570.1	1474.6	1457.3	1497.2	1514.2	1527.2
37.5°	2222.8	2227.3	2161.2	2019.7	1874.4	1746.2	1632.5	1609.0	1649.0	1694.9	1737.1
40°	2471.7	2477.6	2404.8	2230.3	2085.0	1950.9	1828.1	1785.4	1852.0	1939.6	1994.0
42.5°	2709.4	2739.7	2669.4	2489.8	2333.5	2195.0	2070.2	2008.3	2091.8	2224.1	2271.3
45°	3052.7	3074.5	2952.0	2789.3	2642.4	2487.3	2322.2	2256.9	2373.6	2540.4	2550.1
47.5°	3281.5	3265.1	3202.6	3101.6	3008.5	2863.5	2615.0	2543.5	2698.4	2894.7	2840.4
50°	3403.1	3408.3	3399.8	3405.7	3409.2	3318.1	2973.8	2875.7	3060.7	3297.9	3172.8
52.5°	3517.0	3483.3	3511.0	3649.3	3816.1	3782.5	3364.5	3262.0	3449.1	3745.4	3524.1
55°	3514.4	3463.1	3553.7	3797.6	4159.4	4198.1	3803.1	3685.0	3859.8	4225.2	3896.6
57.5°	3390.2	3392.7	3532.1	3851.6	4398.8	4589.3	4312.0	4135.0	4295.5	4711.4	4236.5
60°	3219.2	3242.3	3443.3	3842.6	4590.5	4909.7	4936.4	4620.0	4722.3	5153.2	4517.9
62.5°	2943.1	2967.6	3244.9	3750.9	4561.4	5218.7	5501.0	5170.1	5168.5	5421.2	4600.6
65°	2508.0	2500.8	2791.9	3407.5	4317.4	5447.0	6061.7	5645.8	5504.6	5425.5	4434.6
67.5°	1849.5	1817.5	2067.3	2595.3	3588.5	5191.2	6391.5	5893.5	5619.3	5068.6	3927.3
70°	959.7	927.7	1129.9	1515.4	2360.0	4051.6	6026.2	5765.4	5366.0	4248.8	3076.8
72.5°	410.3	404.9	487.1	664.7	1141.7	2336.9	4725.3	4990.3	4604.4	3165.6	2115.2
75°	276.0	274.3	305.1	362.3	513.7	948.3	2957.1	3542.2	3368.6	1962.8	1189.7
77.5°	216.5	214.4	232.5	260.4	332.8	374.1	1312.3	1901.7	1760.1	854.4	520.7
80°	169.4	167.7	179.0	194.3	239.3	236.0	431.8	756.6	585.6	327.3	253.2
82.5°	133.6	133.6	142.8	143.2	169.8	160.9	225.4	333.2	292.4	190.8	155.0
85°	122.2	122.2	132.0	107.0	110.9	101.5	139.9	197.5	185.4	78.3	67.5
87.5°	61.5	59.8	110.9	94.9	60.2	53.9	68.2	95.6	102.8	43.4	33.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1070.5	1070.2	1070.9	1071.4	1074.7	1079.4	1081.5	1084.4	1086.1	1085.2
5°	1057.8	1058.7	1062.1	1064.6	1070.5	1078.1	1082.3	1085.7	1088.7	1087.4
7.5°	1047.3	1049.5	1054.5	1056.5	1060.0	1062.1	1061.6	1063.0	1065.5	1062.5
10°	1041.5	1044.0	1047.8	1044.8	1036.9	1025.4	1014.9	1009.4	1011.1	1008.9
12.5°	1035.6	1038.9	1035.9	1022.0	999.8	985.0	976.9	977.8	981.6	982.4
15°	1032.2	1033.4	1020.8	994.7	972.0	969.8	974.0	973.3	973.7	973.7
17.5°	1032.2	1028.7	1005.3	979.2	969.5	965.6	952.6	936.2	928.9	926.4
20°	1037.6	1028.7	1000.2	982.8	961.8	929.3	894.8	864.4	851.1	847.2
22.5°	1054.2	1038.9	1014.5	984.5	924.7	870.4	815.7	779.4	754.9	750.8
25°	1087.4	1070.5	1042.8	962.3	865.7	788.3	725.9	685.4	661.1	657.6
27.5°	1145.5	1134.6	1057.8	912.9	787.5	704.5	646.7	615.5	597.5	596.1
30°	1233.2	1227.7	1050.3	840.0	690.9	623.2	595.2	577.3	563.6	563.2
32.5°	1373.0	1328.8	1025.4	751.2	602.9	565.4	554.1	543.0	532.5	532.5
35°	1552.9	1410.5	978.3	655.9	549.4	533.4	519.0	501.8	487.9	487.1
37.5°	1764.5	1461.1	893.5	579.2	524.2	511.9	490.8	465.1	440.7	436.4
40°	1978.0	1476.3	774.3	532.1	508.1	490.4	464.8	434.4	410.7	409.4
42.5°	2173.9	1447.2	647.9	499.6	492.1	468.5	441.4	414.6	396.1	395.7
45°	2338.2	1371.7	541.8	468.9	475.3	448.7	424.7	402.8	388.4	385.6
47.5°	2492.7	1265.2	467.2	436.4	458.3	437.7	417.5	396.8	382.9	380.8
50°	2672.3	1150.1	414.9	404.9	443.7	433.9	423.5	401.9	378.7	376.2
52.5°	2889.7	1050.7	374.1	377.1	432.3	439.0	438.6	416.3	375.9	372.4
55°	3132.3	940.3	343.3	354.3	427.7	448.3	442.3	429.7	378.4	373.2
57.5°	3371.2	811.3	321.9	337.0	420.9	447.4	424.3	406.2	384.2	377.1
60°	3550.3	638.2	305.5	321.9	406.2	433.5	404.4	380.4	382.9	377.5
62.5°	3562.0	493.3	285.7	308.7	383.8	419.6	391.4	369.1	388.4	383.3
65°	3352.7	372.8	266.6	293.2	359.9	410.7	378.7	362.7	399.8	394.4
67.5°	2822.7	299.9	250.6	277.1	335.7	392.2	367.3	356.8	409.9	400.3
70°	2037.8	255.7	235.0	257.9	314.2	371.2	357.3	346.2	382.6	367.3
72.5°	1254.7	221.6	217.4	232.1	297.9	349.3	342.1	326.5	344.6	332.5
75°	626.5	192.1	197.5	206.9	274.7	324.4	316.8	301.2	303.7	301.2
77.5°	299.9	164.3	174.5	181.5	244.8	296.3	288.1	272.1	269.2	269.6
80°	190.0	137.4	147.1	152.2	218.6	263.4	255.3	239.3	273.1	253.2
82.5°	118.8	111.7	114.2	123.4	190.4	229.2	218.6	204.4	246.0	194.7
85°	65.8	78.0	81.2	89.3	146.7	191.7	181.2	163.0	146.2	143.6
87.5°	39.2	46.4	47.6	53.4	98.5	138.6	122.6	116.3	96.5	96.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)