

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: P269107

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269107
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: GLEON-AF-02-LED-E1-T3-7027-800
Description: GALLEON AREA AND ROADWAY 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: 8550.7 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

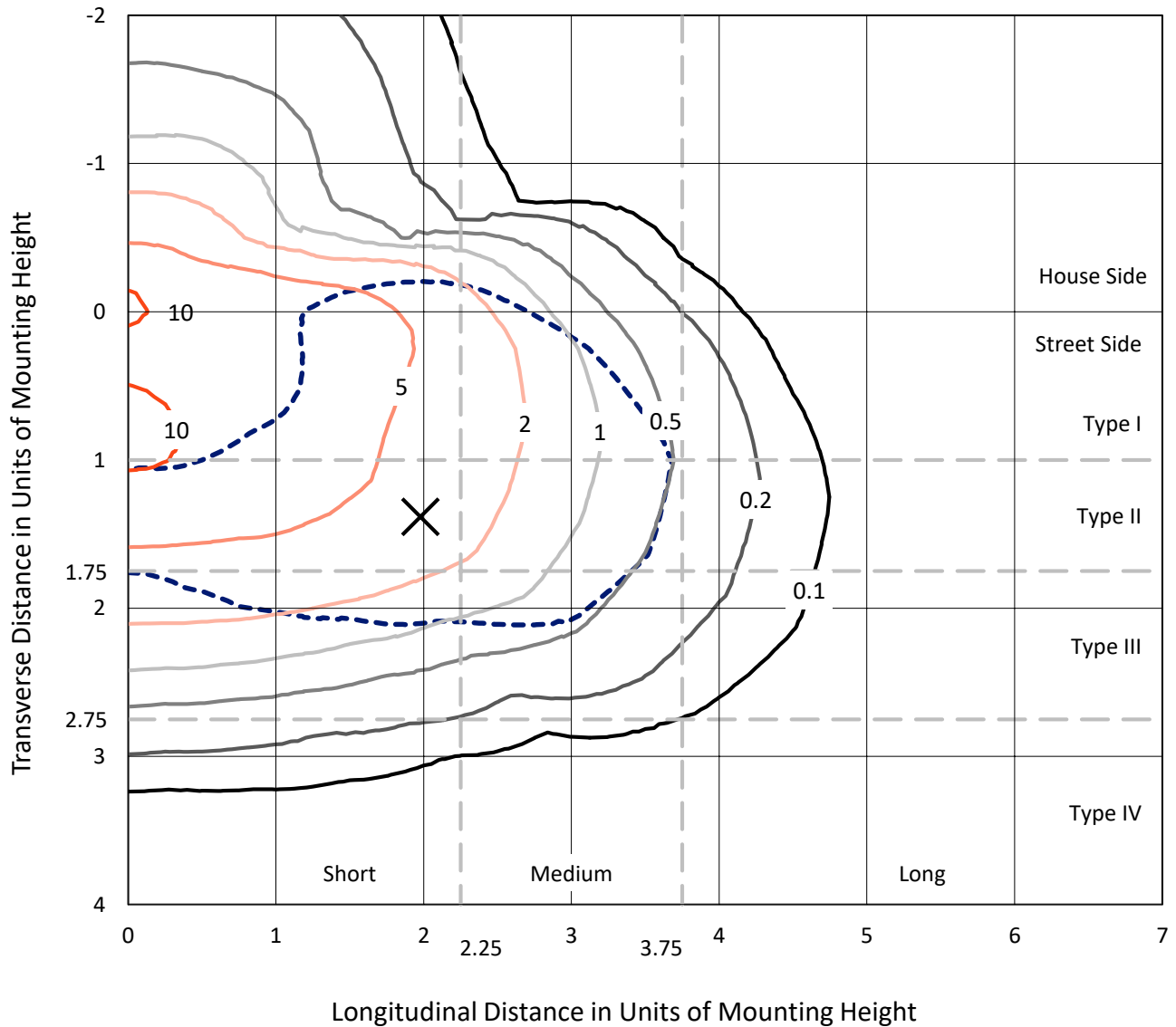
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

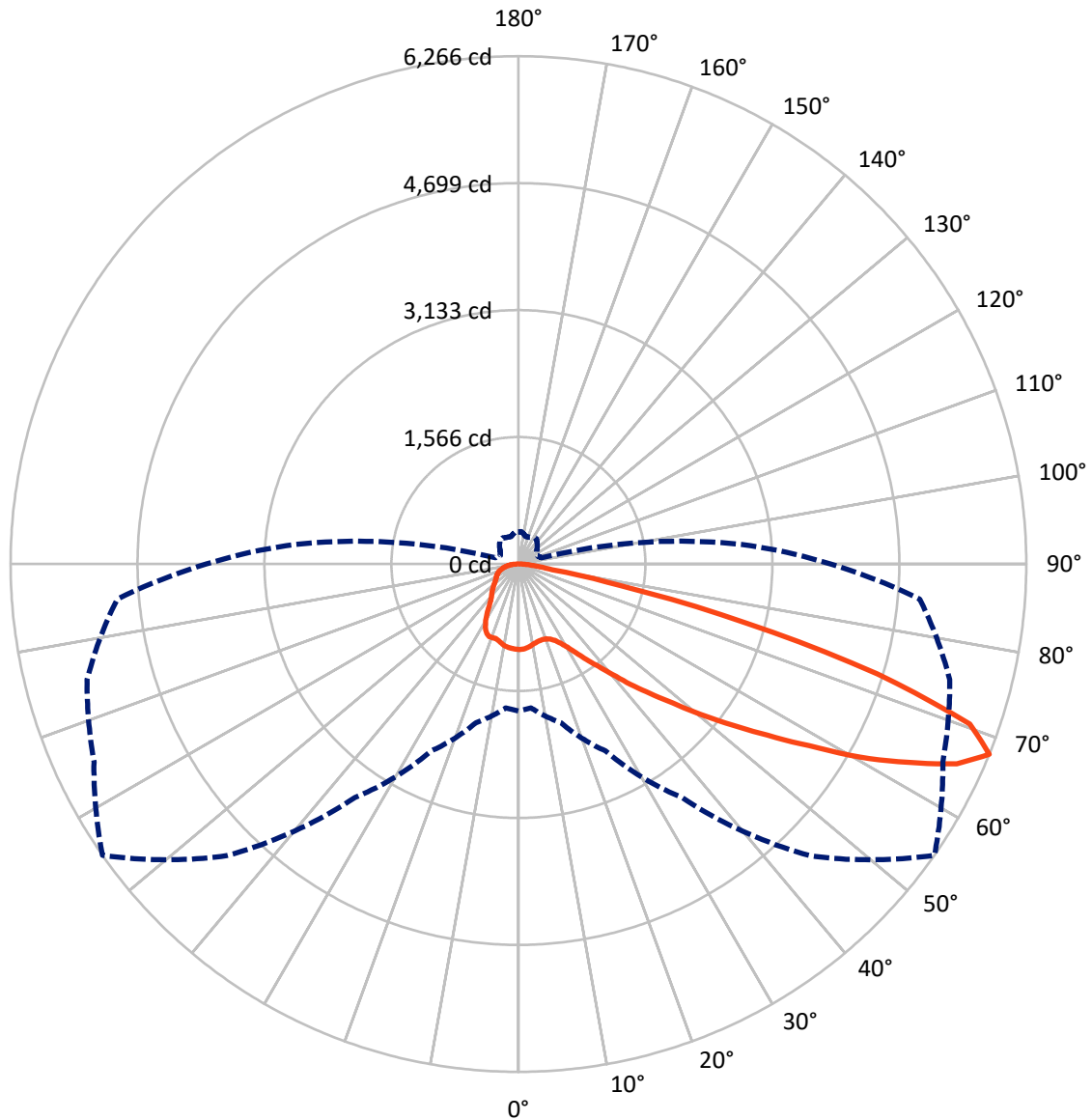
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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	1847.1	0.0	1847.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6703.6	0.0	6703.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	8550.7	0.0	8550.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	1.2
10°-20°	278.7	3.3
20°-30°	466.9	5.5
30°-40°	767.8	9.0
40°-50°	1292.4	15.1
50°-60°	2034.2	23.8
60°-70°	2427.6	28.4
70°-80°	1042.5	12.2
80°-90°	142.1	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°	8550.7	100.0
0°-180°	8550.7	100.0



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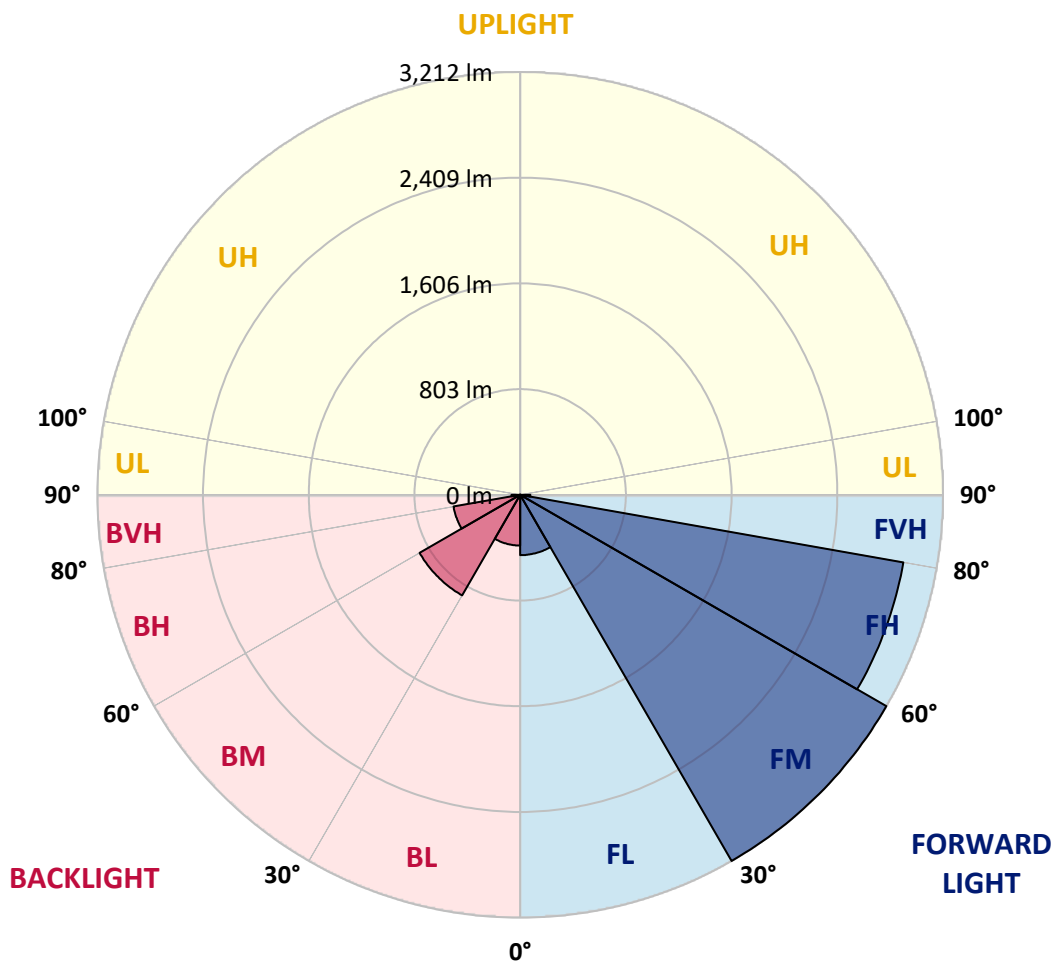
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.3	5.4			
FM (30°-60°)	3212.3	37.6			
FH (60°-80°)	2956.0	34.6			G2/5000
FVH (80°-90°)	76.9	0.9			G1/100
BL (0°-30°)	385.7	4.5	B1/500		
BM (30°-60°)	882.2	10.3	B1/1000		
BH (60°-80°)	514.0	6.0	B2/1000		G2/1000
BVH (80°-90°)	65.2	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°	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1045.3	1045.6	1046.5	1049.8	1052.8	1051.9	1052.4	1050.7	1050.3	1047.9	1050.3
5°	1032.2	1033.3	1033.7	1039.1	1042.5	1043.2	1042.0	1040.0	1037.5	1034.9	1036.3
7.5°	1001.9	1005.3	1005.7	1013.1	1018.5	1025.4	1026.0	1026.4	1025.1	1023.3	1026.0
10°	982.9	983.7	983.4	988.8	992.8	1000.7	1005.3	1013.1	1016.4	1017.2	1018.9
12.5°	981.7	980.9	979.6	979.6	978.4	981.7	989.9	1001.2	1008.9	1011.4	1013.5
15°	995.0	994.6	990.4	984.2	976.4	973.9	980.9	993.3	1003.5	1008.9	1011.0
17.5°	1024.6	1022.2	1015.5	1001.5	984.6	978.0	978.9	989.2	1001.2	1008.2	1010.2
20°	1079.1	1079.1	1065.1	1038.7	1008.5	992.8	985.4	991.5	1003.1	1012.7	1015.5
22.5°	1173.4	1174.2	1150.5	1107.3	1056.4	1023.0	1004.5	1003.1	1016.8	1027.5	1030.8
25°	1306.8	1303.4	1270.5	1208.4	1131.2	1075.9	1043.7	1036.3	1047.9	1059.8	1064.0
27.5°	1462.0	1450.0	1410.8	1336.0	1236.1	1155.2	1105.6	1093.6	1104.7	1118.4	1122.5
30°	1615.6	1603.2	1556.7	1474.8	1363.7	1261.3	1190.3	1170.9	1186.5	1206.0	1208.4
32.5°	1769.3	1769.3	1717.3	1621.9	1500.9	1388.2	1303.0	1279.8	1305.9	1329.4	1334.8
35°	1953.1	1954.0	1903.5	1788.7	1658.6	1539.2	1445.6	1428.6	1467.8	1484.3	1497.1
37.5°	2179.0	2183.5	2118.7	1980.0	1837.5	1711.9	1600.4	1577.2	1616.5	1661.5	1702.7
40°	2423.1	2428.8	2357.4	2186.5	2044.0	1912.6	1791.9	1750.3	1815.6	1901.4	1954.7
42.5°	2656.0	2685.8	2616.8	2440.9	2287.7	2151.7	2029.5	1968.7	2050.6	2180.2	2226.4
45°	2992.7	3014.1	2893.9	2734.5	2590.4	2438.4	2276.5	2212.4	2326.8	2490.5	2500.0
47.5°	3216.9	3200.8	3139.7	3040.6	2949.2	2807.2	2563.6	2493.2	2645.2	2837.7	2784.4
50°	3336.2	3341.2	3332.9	3338.7	3342.1	3252.9	2915.4	2819.2	3000.5	3233.0	3110.3
52.5°	3447.8	3414.6	3441.9	3577.4	3740.9	3707.9	3298.2	3197.8	3381.2	3671.6	3454.7
55°	3445.3	3394.9	3483.6	3722.8	4077.5	4115.6	3728.1	3612.5	3783.9	4141.9	3819.9
57.5°	3323.4	3325.9	3462.5	3775.7	4312.1	4498.8	4227.1	4053.6	4211.0	4618.5	4153.1
60°	3155.7	3178.5	3375.4	3767.0	4500.1	4813.1	4839.1	4529.0	4629.3	5051.8	4429.1
62.5°	2885.3	2909.3	3180.9	3676.9	4471.6	5115.8	5392.5	5068.3	5066.7	5314.6	4510.0
65°	2458.7	2451.6	2737.0	3340.3	4232.5	5339.6	5942.3	5534.5	5396.3	5318.7	4347.3
67.5°	1813.0	1781.7	2026.5	2544.1	3517.9	5089.0	6265.7	5777.4	5508.5	4968.9	3850.0
70°	940.9	909.4	1107.7	1485.5	2313.7	3971.9	5907.6	5652.0	5260.4	4165.1	3016.1
72.5°	402.4	397.0	477.4	651.7	1119.2	2290.9	4632.2	4892.0	4513.7	3103.3	2073.6
75°	270.5	268.9	299.0	355.2	503.4	929.7	2898.8	3472.5	3302.3	1924.2	1166.3
77.5°	212.3	210.3	228.0	255.3	326.3	366.8	1286.6	1864.3	1725.6	837.6	510.4
80°	166.0	164.4	175.4	190.4	234.5	231.3	423.3	741.7	574.0	321.0	248.2
82.5°	131.0	131.0	140.0	140.4	166.5	157.7	221.0	326.7	286.6	187.0	152.1
85°	119.7	119.7	129.3	104.9	108.7	99.5	137.1	193.8	181.6	76.8	66.0
87.5°	60.2	58.7	108.7	93.0	59.1	52.9	67.0	93.8	100.8	42.5	33.1
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°	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1049.4	1049.0	1049.8	1050.3	1053.5	1058.2	1060.2	1063.1	1064.8	1064.0
5°	1037.1	1037.9	1041.1	1043.7	1049.4	1056.9	1061.0	1064.3	1067.1	1066.0
7.5°	1026.8	1028.7	1033.7	1035.7	1039.1	1041.1	1040.7	1042.0	1044.5	1041.6
10°	1021.0	1023.3	1027.1	1024.2	1016.4	1005.3	995.0	989.6	991.2	989.2
12.5°	1015.2	1018.5	1015.5	1001.9	980.1	965.6	957.8	958.6	962.3	963.2
15°	1011.9	1013.1	1000.7	975.1	952.8	950.8	954.9	954.0	954.4	954.4
17.5°	1011.9	1008.5	985.4	959.7	950.2	946.6	933.8	917.7	910.6	908.1
20°	1017.2	1008.5	980.5	963.5	943.0	911.2	877.3	847.6	834.3	830.6
22.5°	1033.3	1018.5	994.6	965.1	906.5	853.3	799.6	764.1	740.2	736.0
25°	1066.0	1049.4	1022.2	943.3	848.7	772.7	711.5	671.9	647.9	644.8
27.5°	1122.9	1112.2	1037.1	895.0	772.0	690.5	633.9	603.4	585.6	584.3
30°	1208.8	1203.5	1029.5	823.6	677.3	610.8	583.5	565.8	552.5	552.2
32.5°	1346.0	1302.6	1005.3	736.4	591.1	554.3	543.0	532.3	522.0	522.0
35°	1522.3	1382.8	959.0	643.0	538.5	522.9	508.8	491.9	478.3	477.4
37.5°	1729.6	1432.3	875.9	567.9	513.8	501.9	481.1	456.0	431.9	427.9
40°	1939.0	1447.2	759.1	521.6	498.1	480.8	455.5	425.7	402.7	401.5
42.5°	2131.0	1418.7	635.2	489.8	482.4	459.3	432.9	406.5	388.2	387.8
45°	2292.1	1344.8	531.1	459.7	466.0	439.8	416.4	394.9	380.8	377.8
47.5°	2443.7	1240.2	458.0	427.9	449.3	429.1	409.3	389.1	375.4	373.3
50°	2619.6	1127.6	406.8	397.0	434.9	425.3	415.0	393.9	371.3	368.8
52.5°	2832.7	1030.0	366.8	369.7	423.7	430.4	429.8	408.0	368.3	365.2
55°	3070.6	921.8	336.5	347.4	419.1	439.5	433.6	421.2	370.9	365.9
57.5°	3304.9	795.4	315.6	330.3	412.6	438.6	415.8	398.0	376.7	369.7
60°	3480.4	625.7	299.4	315.6	398.0	425.0	396.5	372.9	375.4	370.0
62.5°	3491.9	483.6	280.0	302.6	376.2	411.3	383.7	361.7	380.8	375.9
65°	3286.7	365.5	261.4	287.5	352.8	402.7	371.3	355.5	391.9	386.6
67.5°	2767.0	294.0	245.7	271.7	329.1	384.6	360.1	349.8	401.8	392.4
70°	1997.7	250.6	230.4	252.8	308.1	363.9	350.2	339.5	375.0	360.1
72.5°	1229.9	217.2	213.1	227.6	291.9	342.3	335.3	320.1	337.9	325.8
75°	614.1	188.4	193.8	202.7	269.3	318.0	310.5	295.4	297.8	295.4
77.5°	294.0	161.1	170.9	178.0	239.9	290.3	282.4	266.7	263.9	264.3
80°	186.3	134.7	144.2	149.1	214.3	258.2	250.3	234.5	267.6	248.2
82.5°	116.5	109.5	111.8	121.0	186.7	224.7	214.3	200.3	241.1	190.8
85°	64.4	76.4	79.7	87.6	143.6	187.9	177.5	159.8	143.3	140.9
87.5°	38.4	45.5	46.6	52.5	96.7	135.9	120.3	113.9	94.6	94.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)