

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: P533765

Luminaire Tested: **GALN-SA9B-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32182 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

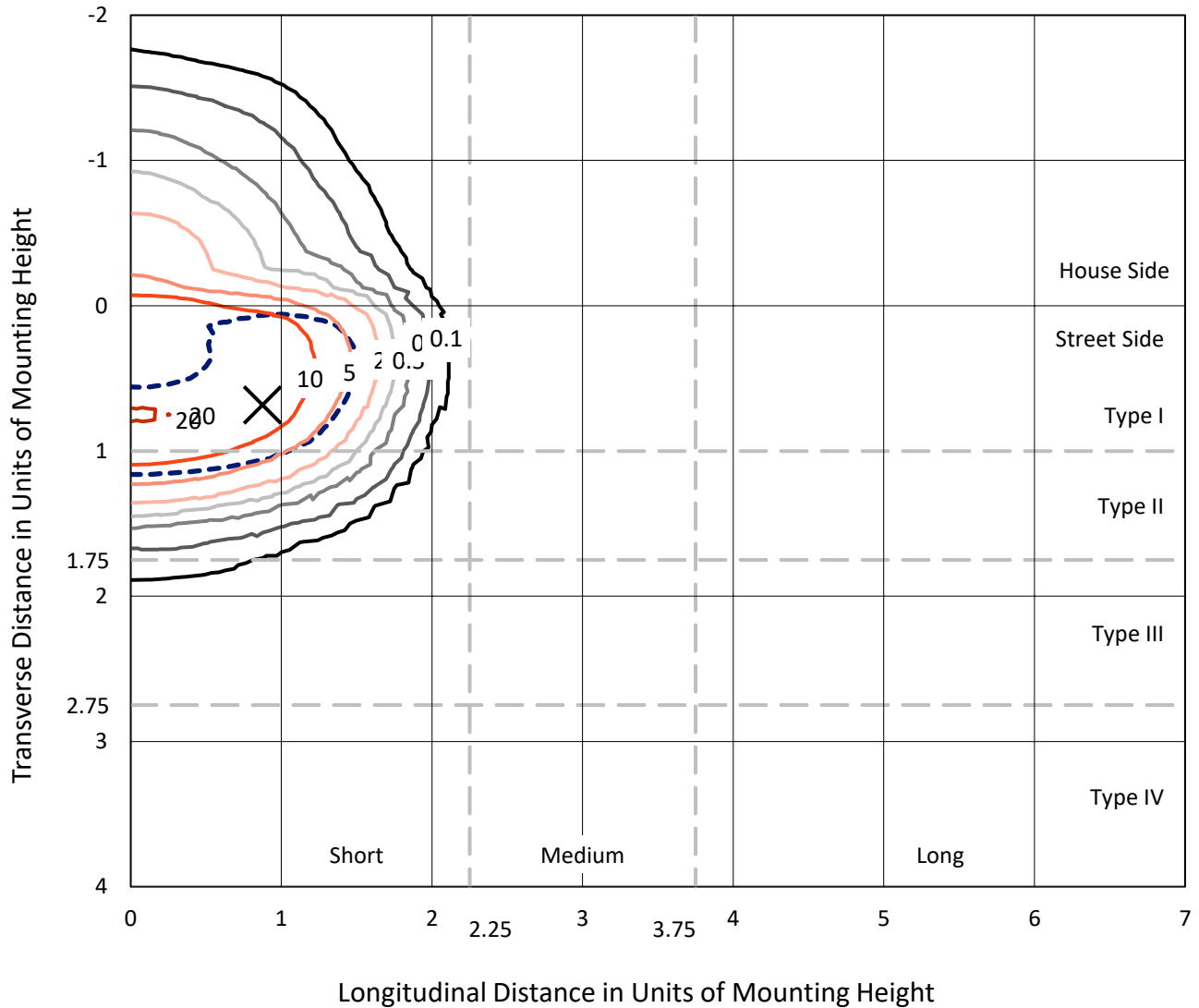
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

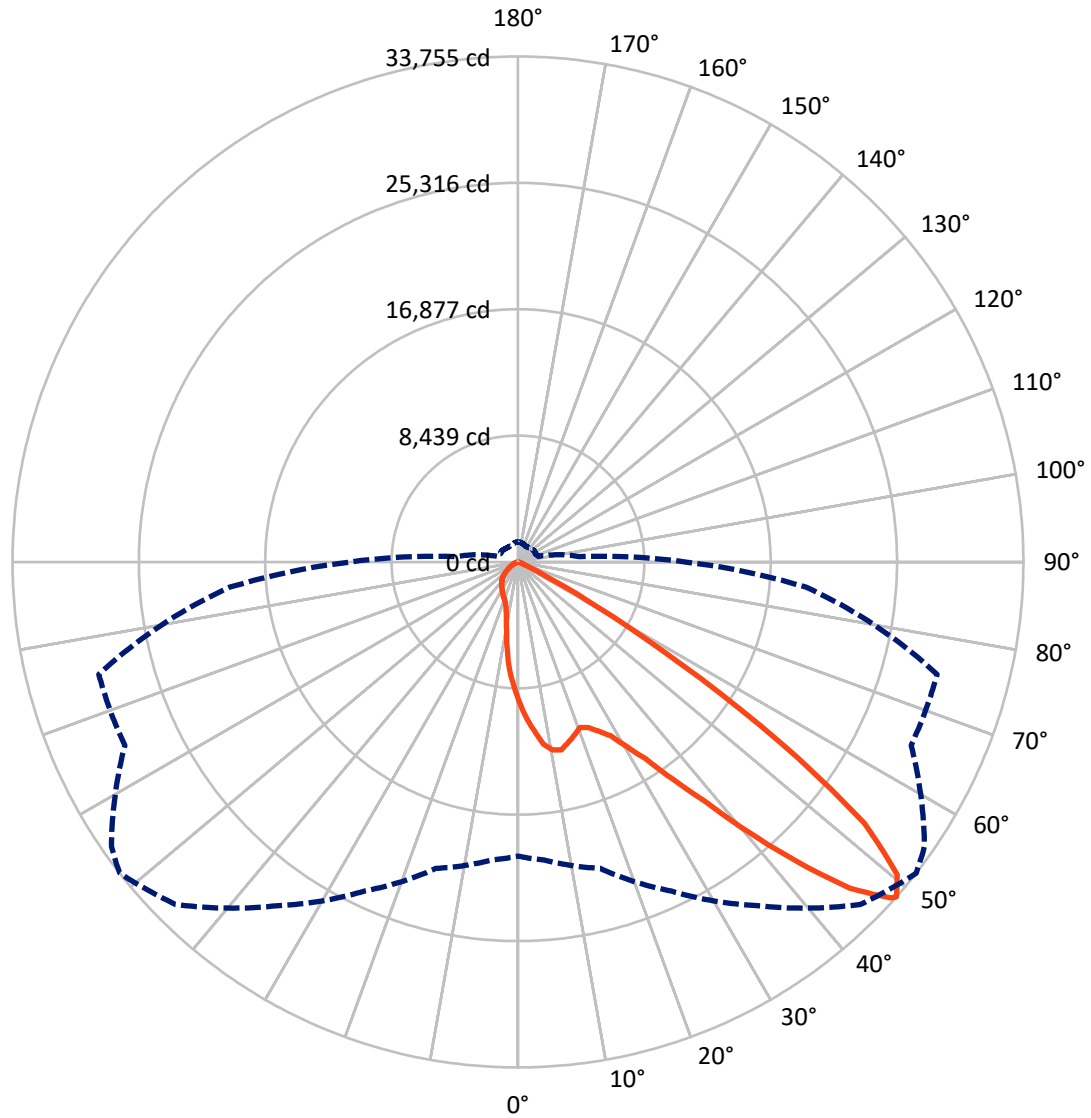
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3918.4	0.0	3918.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	28263.6	0.0	28263.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	32182.0	0.0	32182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.6	2.6
10°-20°	2223.0	6.9
20°-30°	3795.6	11.8
30°-40°	6989.6	21.7
40°-50°	10854.8	33.7
50°-60°	6532.7	20.3
60°-70°	755.6	2.3
70°-80°	146.3	0.5
80°-90°	33.8	0.1
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°	32182.0	100.0
0°-180°	32182.0	100.0

Coefficient of Utilization



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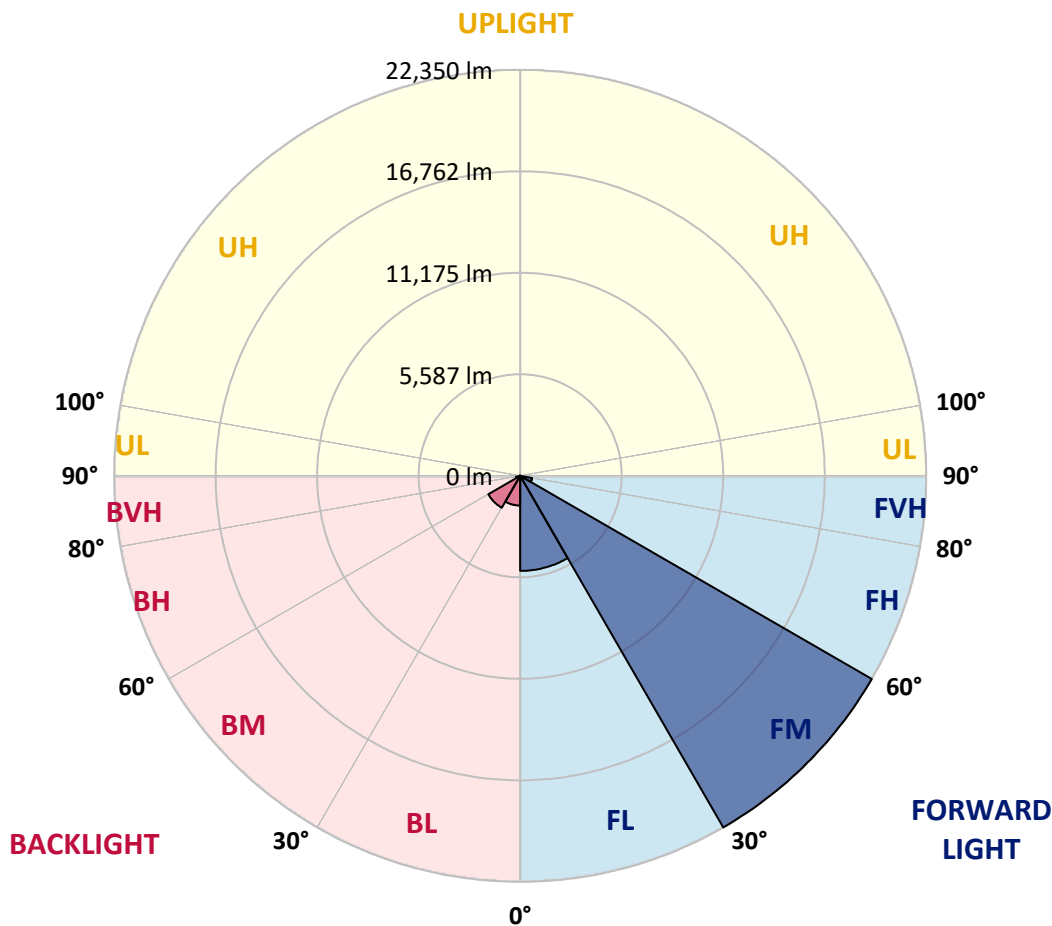
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5232.4	16.3			
FM (30°-60°)	22349.8	69.4			
FH (60°-80°)	665.3	2.1			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1636.9	5.1	B3/2500		
BM (30°-60°)	2027.3	6.3	B2/2500		
BH (60°-80°)	236.5	0.7	B1/500		G1/500
BVH (80°-90°)	17.7	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6
2.5°	11264.0	11006.0	11029.4	10860.5	10762.0	10602.5	10386.7	10344.5	10109.9	9790.9	9467.2
5°	12277.3	12216.4	12296.1	12052.2	12061.5	11798.8	11292.2	11301.5	10762.0	10241.3	9739.3
7.5°	12343.0	12202.3	12282.0	12497.8	12624.5	12577.6	12291.4	12042.8	11531.4	10766.7	10034.9
10°	11052.9	11320.3	11404.7	11761.3	12268.0	12802.8	12769.9	12784.0	12357.1	11357.8	10288.2
12.5°	10278.8	10100.5	10386.7	10602.5	11367.2	12404.0	12877.8	12981.1	13013.9	11930.2	10541.5
15°	9927.0	9927.0	9973.9	10034.9	10588.4	11545.5	12511.9	12812.2	13520.6	12680.8	10940.3
17.5°	10147.5	10138.1	10203.8	10077.1	10283.5	11020.1	12174.1	12516.6	14088.2	13417.4	11254.6
20°	10818.3	10851.2	10808.9	10443.0	10457.1	11010.7	11798.8	12338.3	14472.9	14055.4	11672.2
22.5°	11751.9	11770.7	11531.4	11132.6	11015.4	11287.5	12014.6	12427.5	14782.5	14820.1	11798.8
25°	12830.9	12755.9	12709.0	12146.0	11789.4	12024.0	12502.5	12741.8	14974.9	15476.9	12160.1
27.5°	14327.5	14177.4	13891.2	13389.2	13126.5	12793.4	13135.9	13529.9	15523.8	16396.4	12554.1
30°	16537.1	16405.8	15847.5	15200.1	14510.4	14182.0	14289.9	14505.8	16513.7	17461.3	13074.9
32.5°	19863.3	19586.5	18779.6	17545.8	16607.5	15702.1	15673.9	15903.8	17400.3	18934.4	13694.1
35°	23527.3	23442.8	22255.9	20984.6	19169.0	17771.0	17794.4	17916.4	19098.6	20867.3	14505.8
37.5°	25962.1	26426.6	25671.2	24306.0	22781.3	20782.8	20276.2	20318.4	21430.2	23156.7	15969.5
40°	27843.4	27449.3	27538.4	27219.4	26177.9	24817.4	23696.2	23475.7	24127.8	25690.0	17423.8
42.5°	27022.4	27041.1	27590.0	28345.3	28603.4	28504.8	27360.1	26942.6	26435.9	27763.6	18807.7
45°	24704.8	25188.0	25901.1	27899.6	29654.2	31300.9	31075.7	30381.4	28031.0	29405.6	19605.3
47.5°	21008.0	20989.2	22157.4	24756.4	28655.0	32511.3	33534.0	33046.1	29161.6	29222.6	19441.1
48°	19642.8	19980.6	21186.3	24245.1	28021.6	32333.0	33754.5	33139.9	28969.3	28978.7	19300.3
50°	14519.8	14458.8	15960.1	19713.2	25028.5	30381.4	32825.6	33304.1	28964.6	27744.8	18315.2
52.5°	7670.4	7933.1	9026.2	12394.6	17695.9	24864.3	28955.2	29701.1	27941.9	25727.5	16898.4
55°	3260.5	2946.2	3785.9	5596.8	9955.1	16612.2	21242.6	22903.3	23625.8	22767.3	14782.5
57.5°	1163.5	1271.4	1463.7	2106.4	4184.7	9091.9	12666.7	13956.9	16368.2	16706.0	10072.4
60°	745.9	760.0	821.0	966.4	1571.6	3504.5	6009.7	7037.1	8130.2	8392.9	4700.8
62.5°	577.0	581.7	609.9	633.3	745.9	1360.5	2256.6	2674.1	2777.3	2387.9	1233.8
65°	483.2	487.9	497.3	497.3	530.1	638.0	788.2	867.9	844.4	835.1	699.0
67.5°	370.6	380.0	398.8	398.8	417.5	389.4	436.3	464.4	525.4	638.0	595.8
70°	290.9	295.6	309.6	319.0	319.0	281.5	314.3	342.5	384.7	473.8	469.1
72.5°	225.2	234.6	244.0	244.0	229.9	192.3	225.2	248.6	276.8	328.4	319.0
75°	173.6	173.6	178.3	145.4	112.6	98.5	136.1	164.2	206.4	215.8	178.3
77.5°	46.9	51.6	46.9	42.2	46.9	70.4	89.1	103.2	131.4	131.4	117.3
80°	0.0	4.7	14.1	28.1	46.9	65.7	79.8	89.1	103.2	112.6	107.9
82.5°	0.0	4.7	14.1	28.1	42.2	51.6	70.4	75.1	84.4	98.5	98.5
85°	0.0	4.7	9.4	18.8	28.1	32.8	32.8	28.1	28.1	23.5	18.8
87.5°	0.0	0.0	4.7	9.4	9.4	14.1	14.1	14.1	14.1	14.1	14.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6	9293.6
2.5°	9340.5	9195.1	8974.6	8627.5	8294.4	8078.6	7872.1	7642.3	7515.6	7506.2	7435.8
5°	9453.1	9124.7	8599.3	8003.5	7365.5	6816.6	6263.0	5901.8	5578.1	5399.8	5366.9
7.5°	9514.1	9087.2	8238.1	7238.8	6150.4	5254.3	4635.1	4180.0	4001.7	3870.4	3865.7
10°	9640.8	9021.5	7698.6	6225.5	4879.0	3973.6	3546.7	3340.3	3241.7	3204.2	3147.9
12.5°	9734.6	8899.6	7145.0	5184.0	3856.3	3293.3	3105.7	3058.8	3063.5	3082.2	3058.8
15°	9866.0	8791.6	6399.0	4255.1	3237.1	2965.0	2965.0	2974.3	3040.0	3049.4	3044.7
17.5°	9856.6	8580.5	5629.7	3504.5	2861.7	2824.2	2838.3	2927.4	2969.6	2983.7	2950.9
20°	9969.2	8383.5	4836.8	2993.1	2650.6	2706.9	2800.8	2824.2	2875.8	2885.2	2847.7
22.5°	9936.3	7890.9	4100.3	2589.6	2491.1	2599.0	2692.9	2721.0	2706.9	2678.8	2674.1
25°	9875.4	7468.7	3424.7	2322.2	2373.8	2491.1	2580.3	2528.7	2500.5	2505.2	2509.9
27.5°	9767.5	6933.9	2866.4	2134.6	2214.3	2387.9	2383.2	2364.5	2392.6	2369.1	2392.6
30°	9748.7	6399.0	2406.7	1965.7	2097.0	2223.7	2233.1	2265.9	2298.8	2256.6	2298.8
32.5°	9776.8	5812.6	2078.3	1862.5	2026.7	2031.4	2134.6	2167.4	2144.0	2050.1	2059.5
35°	9992.6	5362.2	1839.0	1806.2	1914.1	1918.8	2017.3	1975.1	1871.9	1815.6	1848.4
37.5°	10447.7	4986.9	1726.4	1754.6	1764.0	1824.9	1829.6	1745.2	1754.6	1749.9	1768.7
40°	11029.4	4700.8	1646.7	1707.7	1698.3	1740.5	1571.6	1618.5	1660.7	1674.8	1684.2
42.5°	11428.2	4494.3	1595.1	1632.6	1613.8	1538.8	1444.9	1491.9	1524.7	1576.3	1585.7
45°	11606.5	4330.1	1534.1	1501.2	1501.2	1365.2	1327.7	1337.0	1412.1	1468.4	1459.0
47.5°	11315.6	4170.6	1426.2	1327.7	1360.5	1247.9	1205.7	1205.7	1285.4	1355.8	1341.7
48°	11203.0	4105.0	1430.9	1290.1	1313.6	1229.1	1186.9	1177.5	1266.7	1332.4	1332.4
50°	10644.7	3861.0	1308.9	1186.9	1140.0	1130.6	1102.5	1111.9	1168.2	1229.1	1229.1
52.5°	9556.3	3335.6	1107.2	1018.0	933.6	989.9	1004.0	985.2	1013.3	1069.6	1064.9
55°	7975.3	2561.5	886.7	844.4	778.8	839.8	867.9	844.4	816.3	858.5	858.5
57.5°	5108.9	1379.3	708.4	717.8	652.1	713.1	736.5	680.3	628.6	661.5	656.8
60°	2303.5	825.7	581.7	567.7	525.4	595.8	633.3	567.7	497.3	520.7	544.2
62.5°	863.2	586.4	441.0	431.6	422.2	487.9	506.7	455.1	384.7	398.8	403.5
65°	633.3	516.1	351.9	319.0	337.8	384.7	375.3	323.7	276.8	276.8	286.2
67.5°	539.5	450.4	286.2	248.6	248.6	253.3	234.6	206.4	192.3	201.7	211.1
70°	422.2	356.5	225.2	192.3	173.6	154.8	136.1	131.4	117.3	131.4	126.7
72.5°	272.1	239.3	173.6	145.4	131.4	107.9	89.1	84.4	70.4	65.7	65.7
75°	145.4	145.4	136.1	117.3	103.2	84.4	70.4	56.3	37.5	28.1	28.1
77.5°	103.2	112.6	122.0	112.6	93.8	70.4	56.3	37.5	18.8	9.4	9.4
80°	98.5	112.6	122.0	107.9	93.8	70.4	51.6	28.1	14.1	4.7	4.7
82.5°	89.1	103.2	112.6	98.5	84.4	61.0	46.9	28.1	14.1	4.7	4.7
85°	18.8	23.5	28.1	28.1	32.8	42.2	32.8	23.5	9.4	4.7	4.7
87.5°	14.1	14.1	14.1	14.1	14.1	14.1	9.4	9.4	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)