

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: P531949

Luminaire Tested: **GALN-SA7B-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21550 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

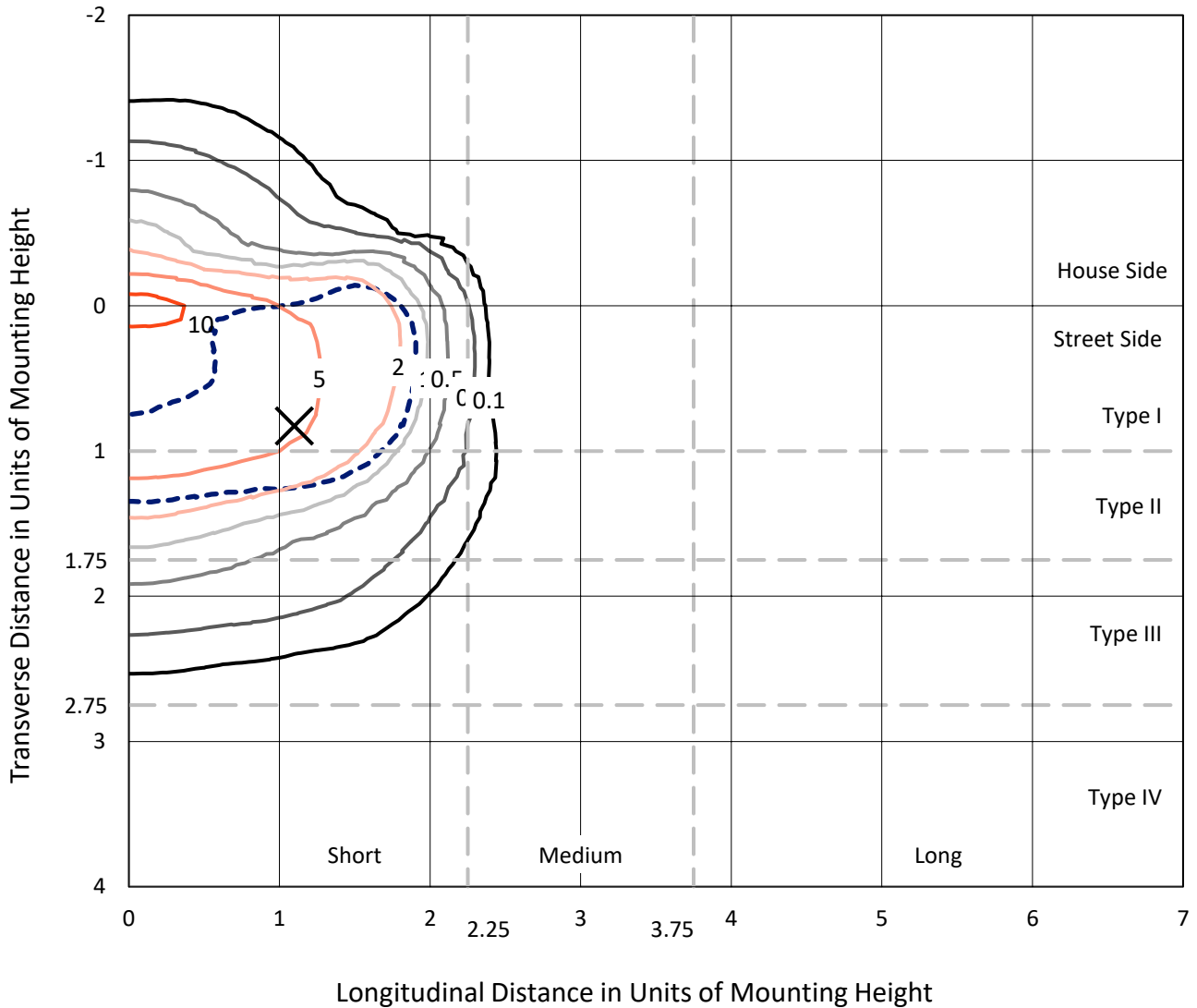
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

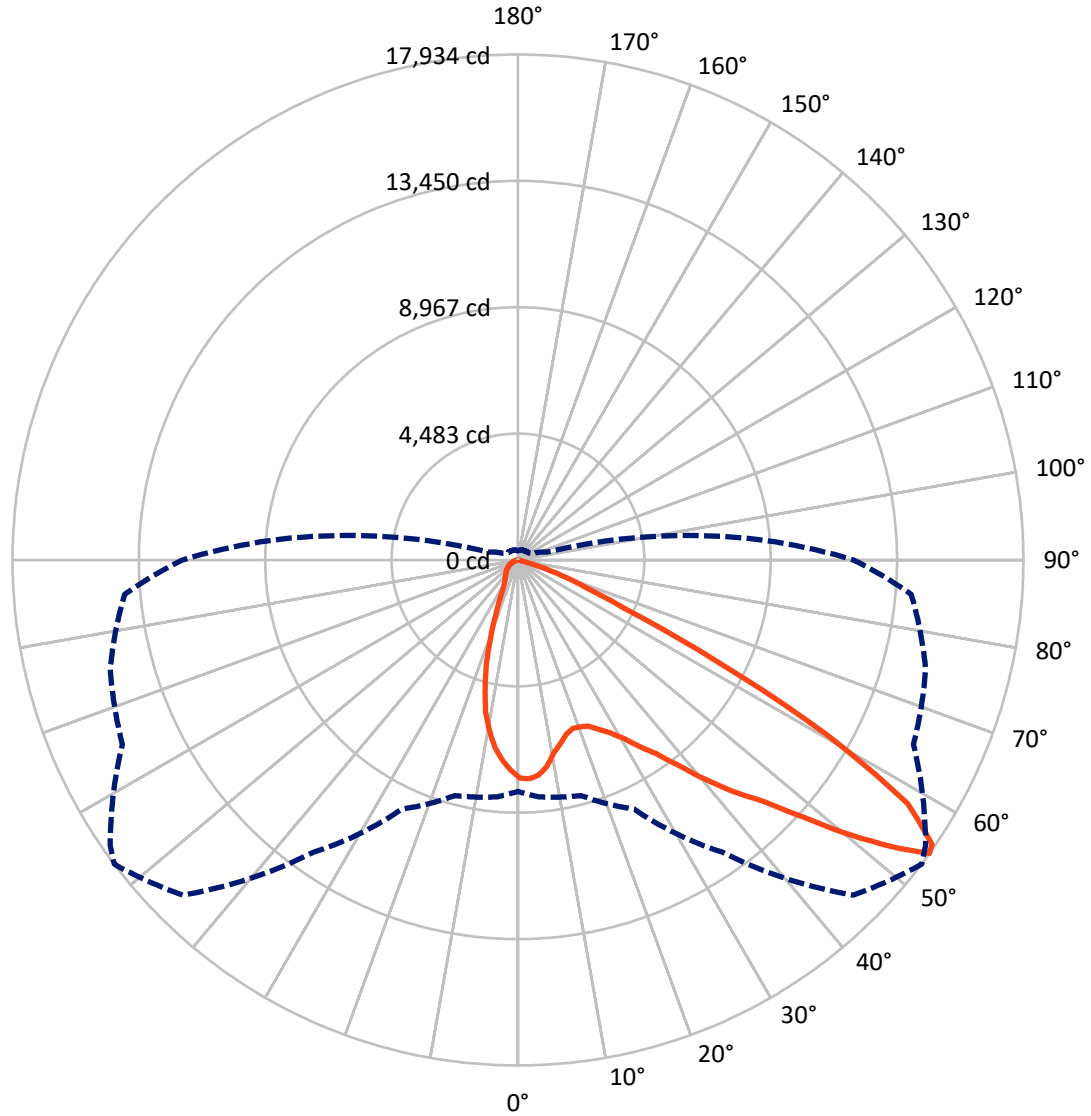
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3565.5	0.0	3565.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17984.5	0.0	17984.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	21550.0	0.0	21550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.1	3.1
10°-20°	1522.6	7.1
20°-30°	2163.9	10.0
30°-40°	3339.5	15.5
40°-50°	5236.0	24.3
50°-60°	6082.4	28.2
60°-70°	2298.3	10.7
70°-80°	218.5	1.0
80°-90°	24.6	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°	21550.0	100.0
0°-180°	21550.0	100.0

Coefficient of Utilization



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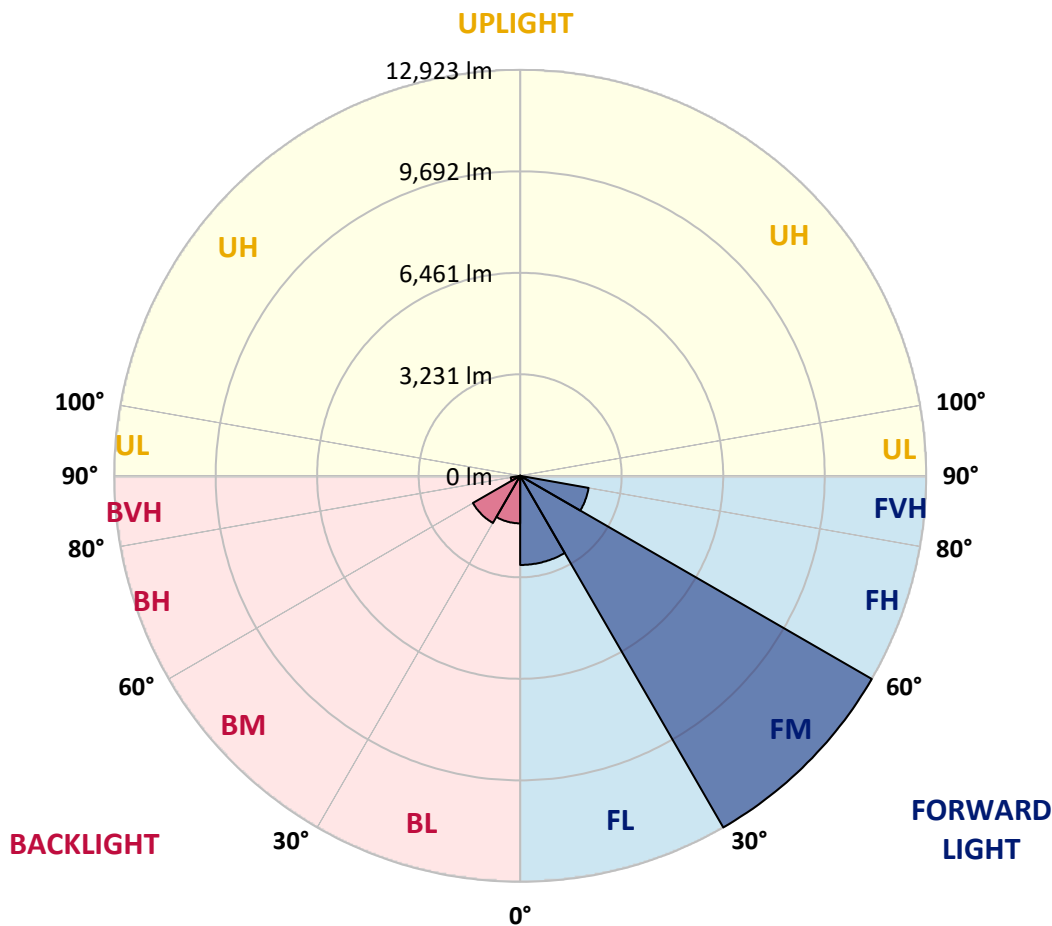
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2837.6	13.2			
FM (30°-60°)	12922.9	60.0			
FH (60°-80°)	2211.4	10.3			G2/5000
FVH (80°-90°)	12.7	0.1			G1/100
BL (0°-30°)	1513.1	7.0	B3/2500		
BM (30°-60°)	1735.1	8.1	B2/2500		
BH (60°-80°)	305.5	1.4	B1/500		G1/500
BVH (80°-90°)	11.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4
2.5°	7700.2	7632.0	7700.2	7708.3	7756.5	7800.6	7772.5	7836.8	7800.6	7760.5	7748.4
5°	7078.0	7170.3	7174.3	7318.9	7286.7	7551.7	7668.1	7636.0	7832.7	7820.7	7792.6
7.5°	6519.9	6483.8	6532.0	6700.6	6913.4	7218.5	7387.1	7383.1	7664.1	7864.9	7844.8
10°	6002.0	5998.0	6098.4	6230.9	6411.5	6732.7	6965.6	7082.0	7519.6	7824.7	7868.9
12.5°	5652.7	5636.7	5745.1	5853.5	6138.5	6387.4	6684.5	6740.7	7242.6	7684.2	7756.5
15°	5423.9	5460.0	5468.1	5676.8	5857.5	6186.7	6419.6	6536.0	7114.1	7571.8	7848.8
17.5°	5383.8	5431.9	5435.9	5608.6	5801.3	6078.3	6283.1	6439.6	7005.7	7628.0	7852.8
20°	5464.0	5435.9	5460.0	5568.4	5757.1	6022.1	6319.2	6371.4	6969.6	7656.1	7897.0
22.5°	5692.9	5684.9	5624.6	5713.0	5845.4	6122.5	6403.5	6483.8	7074.0	7800.6	7933.1
25°	5945.8	5990.0	5933.8	5921.7	6014.1	6287.1	6660.4	6764.8	7423.2	8061.6	8045.5
27.5°	6419.6	6375.4	6375.4	6319.2	6295.1	6427.6	6937.5	7110.1	7812.7	8398.8	8174.0
30°	6873.2	6921.4	6885.3	6905.3	6744.7	6732.7	7330.9	7543.7	8503.2	8912.7	8447.0
32.5°	7591.9	7527.6	7587.8	7535.6	7322.9	7106.1	7864.9	8085.7	9338.3	9502.9	8856.5
35°	8190.0	8161.9	8418.9	8410.9	8065.6	7852.8	8430.9	8760.1	9920.4	10209.5	9338.3
37.5°	9041.2	8989.0	9282.1	9422.6	9113.4	8796.3	9241.9	9623.3	10462.4	10775.5	9832.1
40°	9916.4	10048.9	10442.3	10675.2	10346.0	9924.4	10233.5	10350.0	10823.7	11144.9	10169.3
42.5°	11024.4	11217.2	11618.6	11819.4	11791.3	11333.6	11241.2	11237.2	11084.7	11040.5	10418.2
45°	12088.3	12016.1	12634.4	13072.0	13425.3	13292.8	12212.8	12092.4	11498.2	11197.1	10482.5
47.5°	12554.1	12530.0	12951.5	13730.4	14934.8	15099.4	13626.0	13160.3	12196.7	11855.5	10831.7
50°	11951.8	12076.3	12493.8	13357.0	15203.8	16460.4	15360.4	14734.1	13011.7	12658.4	11658.8
52.5°	9984.6	10068.9	10466.4	11562.4	14288.4	17263.3	17022.4	16661.1	14509.2	13923.1	13100.1
54°	8210.1	8434.9	8651.7	9751.8	12658.4	16817.7	17933.8	17656.8	15484.8	14974.9	14007.4
55°	7150.2	7282.7	7439.3	8535.3	11530.3	16062.9	17829.4	17853.5	16139.2	15304.1	14617.6
57.5°	5223.2	5315.5	5154.9	5640.7	7917.0	13043.9	16307.8	16958.2	17022.4	15798.0	14991.0
60°	3990.6	4030.8	3850.1	3926.4	4922.1	8952.8	12614.3	13397.1	15356.3	13806.7	12698.6
62.5°	3095.4	3103.4	3099.4	3231.9	3392.4	5267.3	7888.9	8583.5	10586.8	9804.0	8623.6
65°	2280.4	2244.2	2308.5	2709.9	2894.6	3312.2	4155.2	4661.1	5753.1	4857.8	3472.7
67.5°	1477.4	1489.5	1553.7	2015.4	2481.1	2541.3	2557.4	2517.2	2521.2	1389.1	871.2
70°	887.3	907.3	887.3	1140.2	1774.5	1822.7	1666.1	1626.0	1268.7	329.2	325.2
72.5°	525.9	497.8	445.6	489.8	738.7	883.2	794.9	790.9	497.8	192.7	192.7
75°	220.8	200.7	164.6	148.5	196.7	188.7	188.7	168.6	132.5	128.5	120.4
77.5°	44.2	44.2	32.1	36.1	48.2	56.2	68.3	68.3	80.3	80.3	76.3
80°	0.0	4.0	12.0	24.1	36.1	52.2	60.2	60.2	68.3	68.3	56.2
82.5°	0.0	4.0	12.0	24.1	32.1	48.2	60.2	60.2	68.3	72.3	60.2
85°	0.0	4.0	12.0	20.1	32.1	40.1	40.1	36.1	28.1	24.1	16.1
87.5°	0.0	0.0	4.0	8.0	4.0	8.0	8.0	8.0	8.0	8.0	8.0
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°	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4	7740.4
2.5°	7776.5	7772.5	7676.2	7519.6	7483.5	7351.0	7334.9	7254.6	7298.8	7150.2	7134.2
5°	7712.3	7664.1	7547.7	7447.3	7154.2	6945.5	6780.9	6580.1	6463.7	6483.8	6407.5
7.5°	7804.6	7680.2	7475.4	7126.1	6768.8	6403.5	6206.8	5797.3	5648.7	5427.9	5395.8
10°	7708.3	7615.9	7298.8	6720.7	6226.8	5700.9	5239.2	4785.6	4440.3	4291.7	4259.6
12.5°	7700.2	7539.7	7009.7	6367.4	5652.7	4898.0	4227.5	3661.4	3320.2	3127.5	3083.3
15°	7575.8	7383.1	6684.5	5821.4	4833.7	3894.3	3163.6	2617.6	2356.6	2244.2	2276.4
17.5°	7587.8	7298.8	6359.3	5243.2	4026.8	2858.5	2159.9	1878.9	1810.6	1838.7	1838.7
20°	7575.8	7110.1	5965.9	4576.8	3083.3	1983.3	1585.8	1485.4	1529.6	1617.9	1597.9
22.5°	7511.6	7021.8	5604.6	3874.2	2268.3	1469.4	1272.7	1276.7	1344.9	1453.3	1477.4
25°	7559.7	6825.0	5146.9	3163.6	1654.1	1172.3	1104.1	1132.2	1204.4	1284.7	1300.8
27.5°	7523.6	6684.5	4669.1	2457.0	1208.4	1007.7	1003.7	1035.8	1067.9	1128.1	1128.1
30°	7563.7	6556.1	4199.4	1826.7	995.7	923.4	907.3	931.4	963.5	975.6	971.6
32.5°	7712.3	6459.7	3657.4	1365.0	879.2	843.1	843.1	843.1	839.1	855.1	859.2
35°	8037.5	6475.8	3179.7	1055.9	802.9	774.8	762.8	746.7	738.7	746.7	750.8
37.5°	8390.8	6467.7	2685.9	899.3	746.7	722.7	694.5	670.5	666.4	674.5	662.4
40°	8547.4	6544.0	2228.2	807.0	694.5	666.4	622.3	602.2	606.2	614.3	606.2
42.5°	8760.1	6568.1	1931.1	734.7	646.4	602.2	574.1	550.0	546.0	558.0	554.0
45°	8756.1	6431.6	1617.9	694.5	602.2	554.0	517.9	497.8	497.8	505.9	509.9
47.5°	9013.1	6411.5	1389.1	658.4	570.1	521.9	477.8	461.7	457.7	457.7	449.6
50°	9611.3	6692.6	1212.4	618.3	529.9	485.8	449.6	429.6	413.5	405.5	401.5
52.5°	10779.5	7567.8	1075.9	570.1	485.8	449.6	417.5	401.5	381.4	361.3	357.3
54°	11911.7	8471.1	1067.9	529.9	449.6	425.6	397.5	389.4	365.3	337.2	329.2
55°	12421.6	8997.0	1096.0	497.8	425.6	409.5	385.4	377.4	353.3	321.2	317.2
57.5°	12843.1	9201.8	1080.0	413.5	385.4	381.4	361.3	349.3	321.2	277.0	269.0
60°	10337.9	6957.5	774.8	365.3	353.3	345.3	329.2	321.2	285.0	236.9	232.9
62.5°	6532.0	4002.7	493.8	321.2	309.1	297.1	277.0	269.0	236.9	188.7	176.6
65°	2782.2	1658.1	333.2	285.0	265.0	244.9	228.8	216.8	188.7	140.5	136.5
67.5°	722.7	590.2	277.0	248.9	220.8	192.7	180.7	160.6	128.5	96.4	92.3
70°	325.2	297.1	232.9	208.8	176.6	148.5	132.5	112.4	84.3	64.2	60.2
72.5°	192.7	188.7	176.6	156.6	132.5	112.4	96.4	76.3	56.2	36.1	36.1
75°	120.4	116.4	120.4	108.4	92.3	84.3	72.3	52.2	32.1	16.1	16.1
77.5°	72.3	72.3	72.3	68.3	64.2	64.2	52.2	32.1	16.1	4.0	4.0
80°	56.2	56.2	60.2	56.2	56.2	56.2	44.2	24.1	8.0	0.0	0.0
82.5°	56.2	60.2	68.3	64.2	56.2	48.2	40.1	24.1	8.0	0.0	0.0
85°	16.1	12.0	20.1	28.1	40.1	36.1	28.1	20.1	8.0	0.0	0.0
87.5°	8.0	8.0	8.0	8.0	4.0	4.0	4.0	4.0	4.0	0.0	0.0
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)