

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: P534159

Luminaire Tested: **GALN-SA9C-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534159
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-SA9C-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA 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: 27348 lumens
Efficiency: N/A
Efficacy: 56.9 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

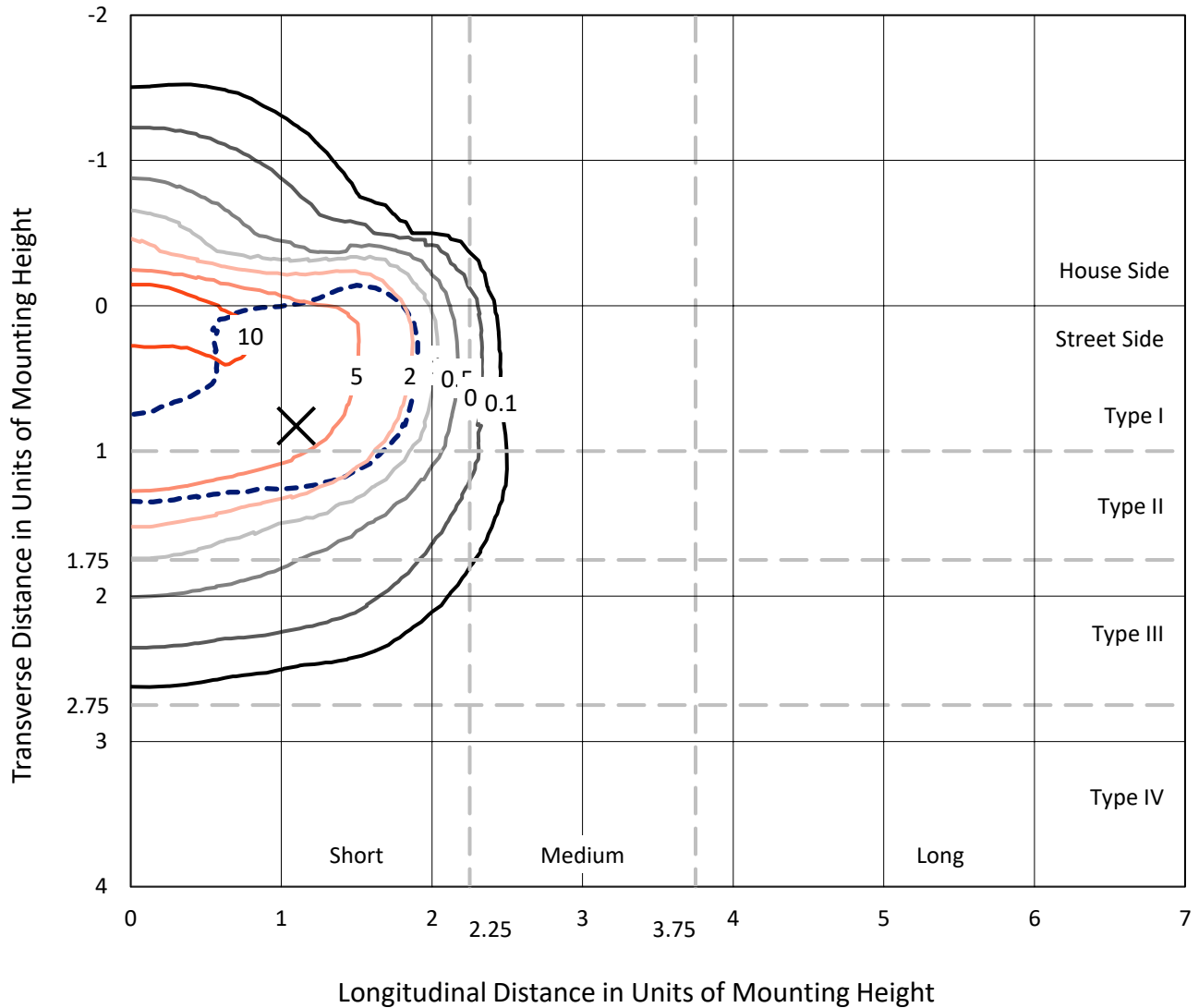
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

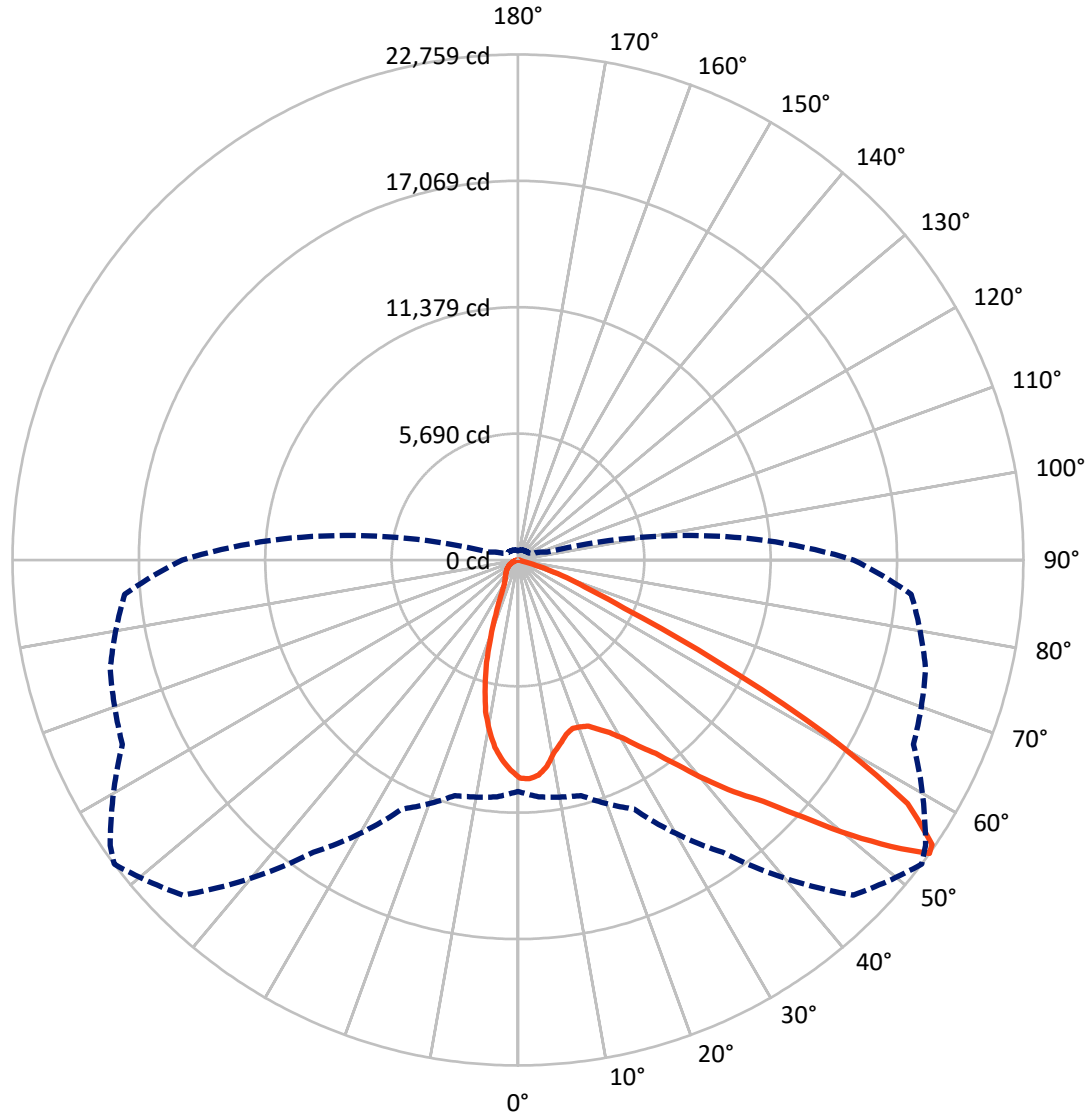
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	4524.8	0.0	4524.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22823.2	0.0	22823.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	27348.0	0.0	27348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.8	3.1
10°-20°	1932.2	7.1
20°-30°	2746.1	10.0
30°-40°	4238.0	15.5
40°-50°	6644.8	24.3
50°-60°	7718.8	28.2
60°-70°	2916.6	10.7
70°-80°	277.4	1.0
80°-90°	31.2	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°	27348.0	100.0
0°-180°	27348.0	100.0

Coefficient of Utilization

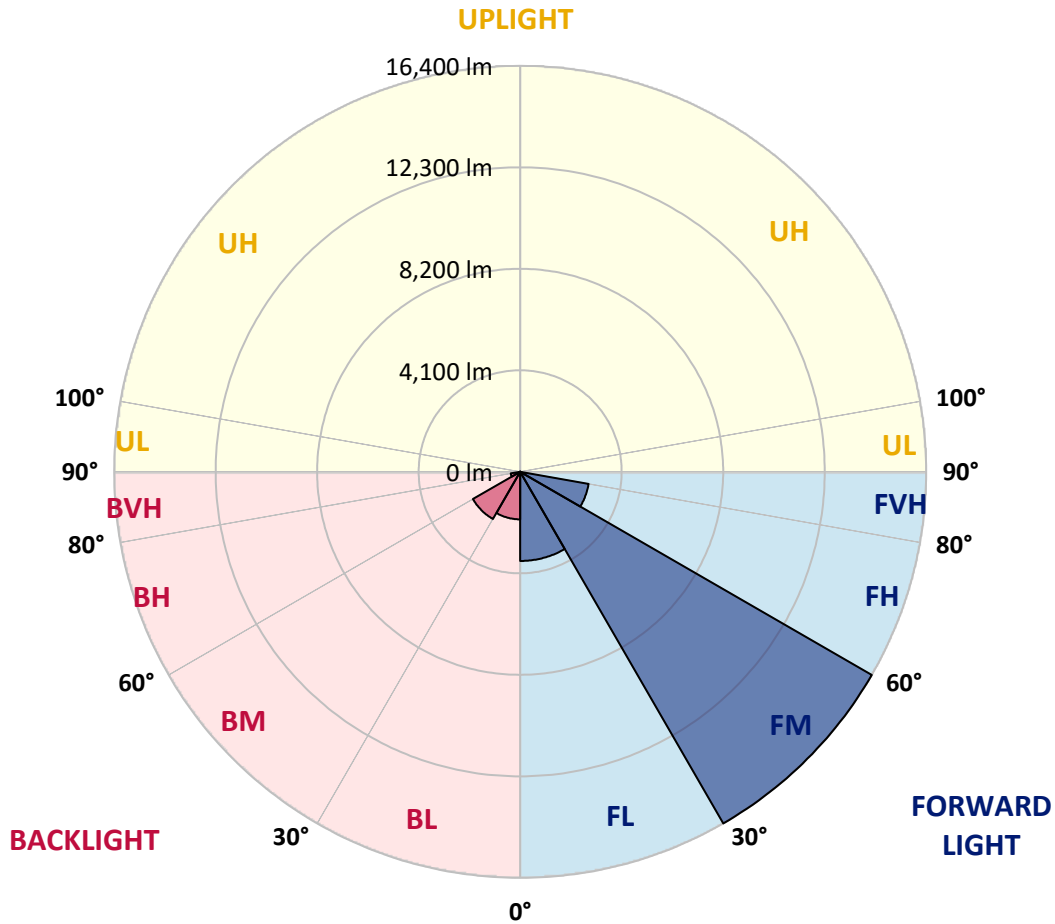


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3601.0	13.2			
FM (30°-60°)	16399.7	60.0			
FH (60°-80°)	2806.3	10.3			G2/5000
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1920.1	7.0	B3/2500		
BM (30°-60°)	2201.9	8.1	B2/2500		
BH (60°-80°)	387.7	1.4	B1/500		G1/500
BVH (80°-90°)	15.1	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°	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9
2.5°	9772.0	9685.4	9772.0	9782.2	9843.3	9899.4	9863.7	9945.2	9899.4	9848.4	9833.1
5°	8982.3	9099.5	9104.6	9288.0	9247.2	9583.5	9731.2	9690.5	9940.1	9924.8	9889.2
7.5°	8274.1	8228.2	8289.4	8503.4	8773.4	9160.6	9374.6	9369.5	9726.1	9980.9	9955.4
10°	7616.9	7611.8	7739.1	7907.3	8136.5	8544.1	8839.6	8987.4	9542.7	9929.9	9986.0
12.5°	7173.6	7153.2	7290.8	7428.3	7790.1	8106.0	8483.0	8554.3	9191.2	9751.6	9843.3
15°	6883.2	6929.0	6939.2	7204.2	7433.4	7851.2	8146.7	8294.5	9028.1	9609.0	9960.5
17.5°	6832.2	6893.4	6898.5	7117.6	7362.1	7713.7	7973.5	8172.2	8890.6	9680.3	9965.6
20°	6934.1	6898.5	6929.0	7066.6	7306.1	7642.3	8019.4	8085.6	8844.7	9715.9	10021.6
22.5°	7224.5	7214.4	7137.9	7250.0	7418.2	7769.7	8126.3	8228.2	8977.2	9899.4	10067.5
25°	7545.5	7601.6	7530.2	7515.0	7632.1	7978.6	8452.4	8584.9	9420.4	10230.5	10210.2
27.5°	8146.7	8090.7	8090.7	8019.4	7988.8	8156.9	8804.0	9023.0	9914.6	10658.5	10373.2
30°	8722.4	8783.6	8737.7	8763.2	8559.4	8544.1	9303.3	9573.3	10791.0	11310.6	10719.6
32.5°	9634.4	9552.9	9629.3	9563.1	9293.1	9017.9	9980.9	10261.1	11850.7	12059.6	11239.3
35°	10393.6	10357.9	10684.0	10673.8	10235.6	9965.6	10699.3	11117.0	12589.5	12956.3	11850.7
37.5°	11473.7	11407.5	11779.4	11957.7	11565.4	11162.9	11728.4	12212.4	13277.3	13674.7	12477.4
40°	12584.4	12752.5	13251.8	13547.3	13129.5	12594.6	12986.9	13134.6	13735.8	14143.4	12905.3
42.5°	13990.6	14235.1	14744.6	14999.3	14963.7	14382.9	14265.7	14260.6	14067.0	14010.9	13221.2
45°	15340.7	15249.0	16033.6	16588.9	17037.3	16869.2	15498.6	15345.8	14591.8	14209.6	13302.7
47.5°	15931.7	15901.1	16436.1	17424.5	18953.0	19161.9	17292.0	16701.0	15478.3	15045.2	13746.0
50°	15167.5	15325.4	15855.3	16950.7	19294.3	20889.0	19493.0	18698.2	16512.5	16064.2	14795.5
52.5°	12671.0	12778.0	13282.4	14673.3	18132.7	21908.0	21602.3	21143.8	18412.9	17669.1	16624.6
54°	10419.0	10704.4	10979.5	12375.5	16064.2	21342.5	22758.9	22407.3	19651.0	19003.9	17776.1
55°	9074.0	9242.1	9440.8	10831.7	14632.5	20384.6	22626.4	22657.0	20481.4	19421.7	18550.5
57.5°	6628.4	6745.6	6541.8	7158.3	10047.1	16553.3	20695.4	21520.8	21602.3	20048.4	19024.3
60°	5064.3	5115.3	4886.0	4982.8	6246.3	11361.6	16008.1	17001.6	19487.9	17521.3	16115.1
62.5°	3928.2	3938.3	3933.3	4101.4	4305.2	6684.5	10011.5	10892.9	13435.2	12441.7	10943.8
65°	2893.9	2848.0	2929.6	3439.0	3673.4	4203.3	5273.2	5915.2	7301.0	6164.8	4407.1
67.5°	1874.9	1890.2	1971.7	2557.6	3148.6	3225.1	3245.4	3194.5	3199.6	1762.8	1105.6
70°	1126.0	1151.4	1126.0	1446.9	2251.9	2313.1	2114.4	2063.4	1610.0	417.8	412.7
72.5°	667.4	631.8	565.5	621.6	937.5	1120.9	1008.8	1003.7	631.8	244.6	244.6
75°	280.2	254.7	208.9	188.5	249.6	239.5	239.5	214.0	168.1	163.0	152.8
77.5°	56.0	56.0	40.8	45.9	61.1	71.3	86.6	86.6	101.9	101.9	96.8
80°	0.0	5.1	15.3	30.6	45.9	66.2	76.4	76.4	86.6	86.6	71.3
82.5°	0.0	5.1	15.3	30.6	40.8	61.1	76.4	76.4	86.6	91.7	76.4
85°	0.0	5.1	15.3	25.5	40.8	50.9	50.9	45.9	35.7	30.6	20.4
87.5°	0.0	0.0	5.1	10.2	5.1	10.2	10.2	10.2	10.2	10.2	10.2
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°	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9	9822.9
2.5°	9868.8	9863.7	9741.4	9542.7	9496.9	9328.7	9308.4	9206.5	9262.5	9074.0	9053.6
5°	9787.3	9726.1	9578.4	9451.0	9079.1	8814.2	8605.3	8350.5	8202.8	8228.2	8131.4
7.5°	9904.5	9746.5	9486.7	9043.4	8590.0	8126.3	7876.7	7357.0	7168.5	6888.3	6847.5
10°	9782.2	9665.0	9262.5	8528.8	7902.2	7234.7	6648.8	6073.1	5634.9	5446.4	5405.7
12.5°	9772.0	9568.2	8895.7	8080.5	7173.6	6215.8	5364.9	4646.5	4213.5	3968.9	3912.9
15°	9614.1	9369.5	8483.0	7387.6	6134.2	4942.0	4014.8	3321.9	2990.7	2848.0	2888.8
17.5°	9629.3	9262.5	8070.3	6653.9	5110.2	3627.6	2741.0	2384.4	2297.8	2333.5	2333.5
20°	9614.1	9023.0	7571.0	5808.2	3912.9	2516.9	2012.5	1885.1	1941.2	2053.2	2027.8
22.5°	9532.5	8911.0	7112.5	4916.6	2878.6	1864.7	1615.1	1620.2	1706.8	1844.3	1874.9
25°	9593.7	8661.3	6531.6	4014.8	2099.1	1487.7	1401.1	1436.8	1528.5	1630.4	1650.7
27.5°	9547.8	8483.0	5925.4	3118.1	1533.6	1278.8	1273.7	1314.5	1355.2	1431.7	1431.7
30°	9598.8	8319.9	5329.3	2318.2	1263.5	1171.8	1151.4	1182.0	1222.8	1238.1	1233.0
32.5°	9787.3	8197.7	4641.4	1732.3	1115.8	1069.9	1069.9	1069.9	1064.8	1085.2	1090.3
35°	10200.0	8218.1	4035.1	1340.0	1019.0	983.3	968.0	947.6	937.5	947.6	952.7
37.5°	10648.3	8207.9	3408.5	1141.3	947.6	917.1	881.4	850.8	845.8	855.9	840.7
40°	10847.0	8304.7	2827.7	1024.1	881.4	845.8	789.7	764.2	769.3	779.5	769.3
42.5°	11117.0	8335.2	2450.6	932.4	820.3	764.2	728.6	698.0	692.9	708.2	703.1
45°	11111.9	8162.0	2053.2	881.4	764.2	703.1	657.2	631.8	631.8	642.0	647.1
47.5°	11438.0	8136.5	1762.8	835.6	723.5	662.3	606.3	585.9	580.8	580.8	570.6
50°	12197.2	8493.2	1538.7	784.6	672.5	616.5	570.6	545.2	524.8	514.6	509.5
52.5°	13679.8	9603.9	1365.4	723.5	616.5	570.6	529.9	509.5	484.0	458.5	453.4
54°	15116.5	10750.2	1355.2	672.5	570.6	540.1	504.4	494.2	463.6	428.0	417.8
55°	15763.6	11417.6	1390.9	631.8	540.1	519.7	489.1	478.9	448.3	407.6	402.5
57.5°	16298.5	11677.5	1370.5	524.8	489.1	484.0	458.5	443.3	407.6	351.5	341.4
60°	13119.3	8829.4	983.3	463.6	448.3	438.2	417.8	407.6	361.7	300.6	295.5
62.5°	8289.4	5079.6	626.7	407.6	392.3	377.0	351.5	341.4	300.6	239.5	224.2
65°	3530.8	2104.2	422.9	361.7	336.3	310.8	290.4	275.1	239.5	178.3	173.2
67.5°	917.1	748.9	351.5	315.9	280.2	244.6	229.3	203.8	163.0	122.3	117.2
70°	412.7	377.0	295.5	264.9	224.2	188.5	168.1	142.7	107.0	81.5	76.4
72.5°	244.6	239.5	224.2	198.7	168.1	142.7	122.3	96.8	71.3	45.9	45.9
75°	152.8	147.8	152.8	137.6	117.2	107.0	91.7	66.2	40.8	20.4	20.4
77.5°	91.7	91.7	91.7	86.6	81.5	81.5	66.2	40.8	20.4	5.1	5.1
80°	71.3	71.3	76.4	71.3	71.3	71.3	56.0	30.6	10.2	0.0	0.0
82.5°	71.3	76.4	86.6	81.5	71.3	61.1	50.9	30.6	10.2	0.0	0.0
85°	20.4	15.3	25.5	35.7	50.9	45.9	35.7	25.5	10.2	0.0	0.0
87.5°	10.2	10.2	10.2	10.2	5.1	5.1	5.1	5.1	5.1	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)