

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: P533147

Luminaire Tested: **GALN-SA8C-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33200 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

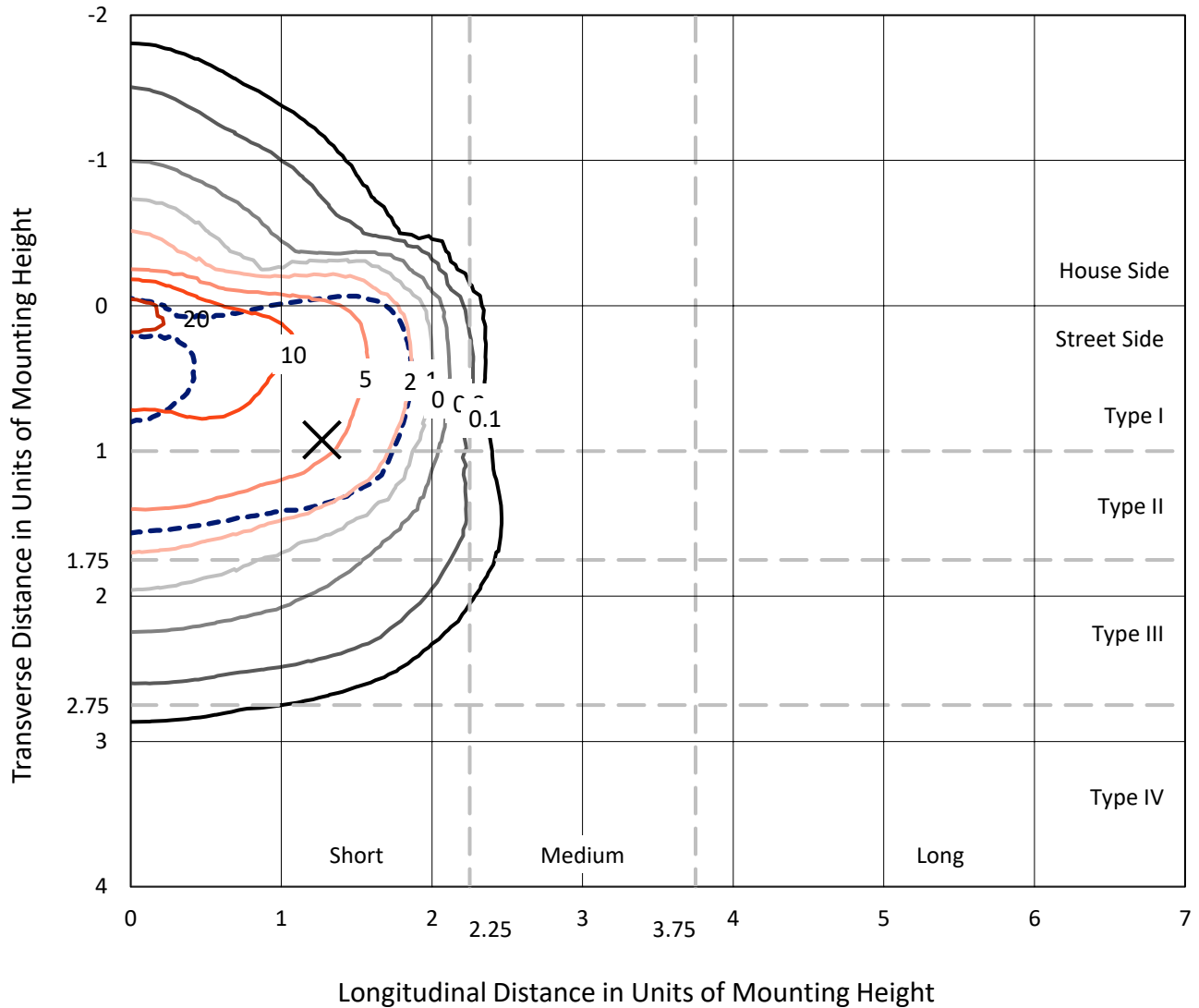
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

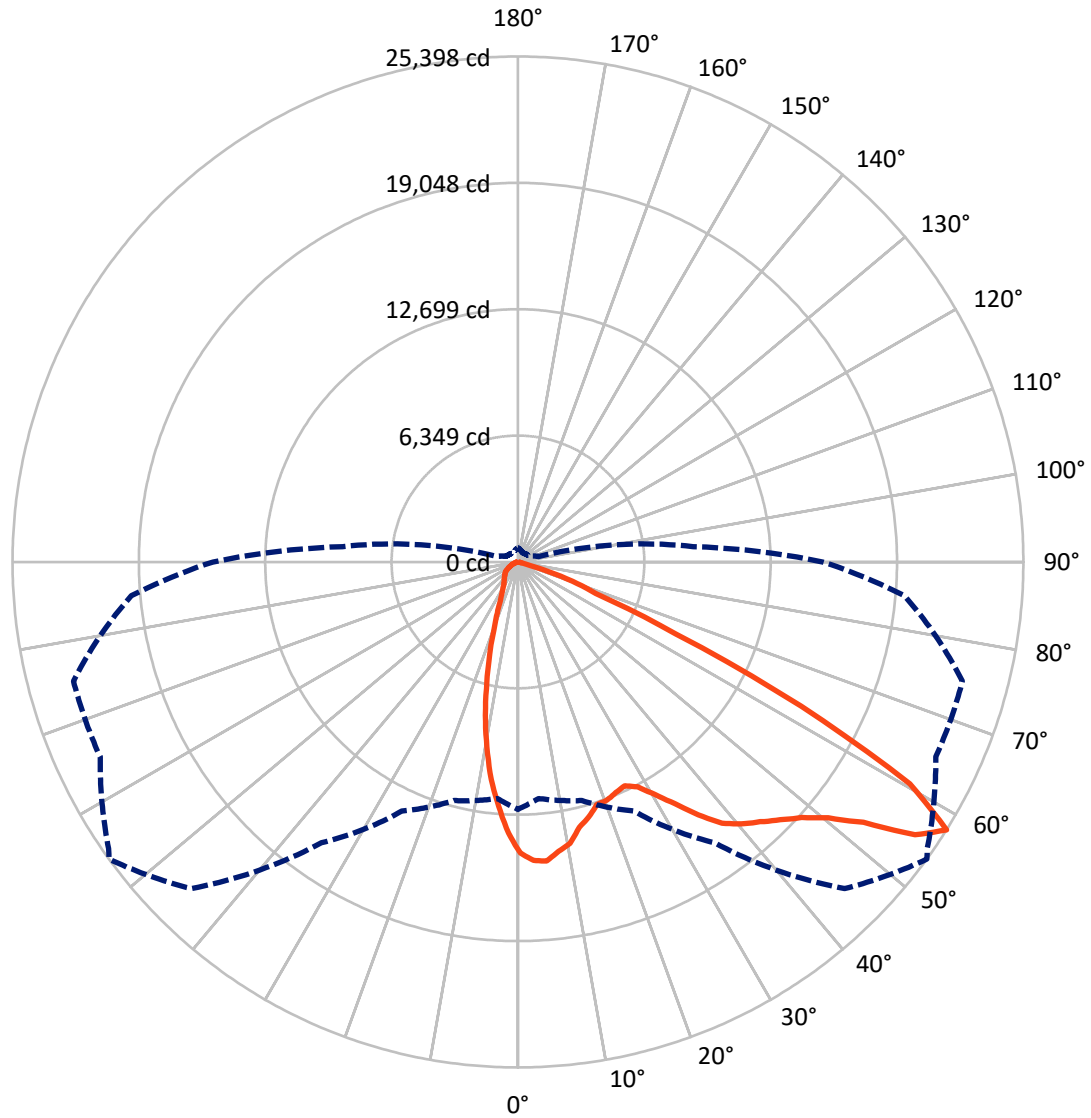
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4691.7	0.0	4691.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	28508.3	0.0	28508.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	33200.0	0.0	33200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1223.9	3.7
10°-20°	2612.9	7.9
20°-30°	3462.6	10.4
30°-40°	5032.2	15.2
40°-50°	7462.0	22.5
50°-60°	9330.9	28.1
60°-70°	3680.6	11.1
70°-80°	366.5	1.1
80°-90°	28.5	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°	33200.0	100.0
0°-180°	33200.0	100.0

Coefficient of Utilization



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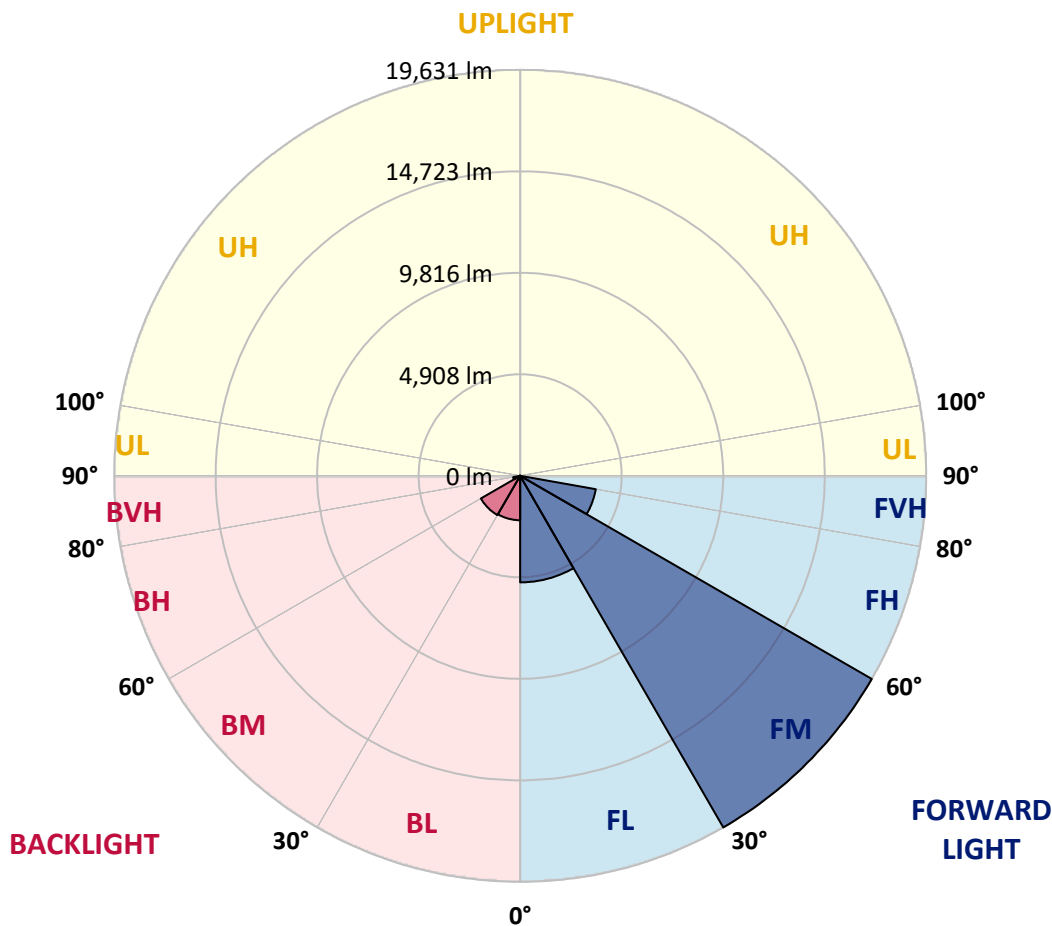
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5153.6	15.5			
FM (30°-60°)	19631.1	59.1			
FH (60°-80°)	3710.6	11.2			G2/5000
FVH (80°-90°)	12.9	0.0			G1/100
BL (0°-30°)	2145.8	6.5	B3/2500		
BM (30°-60°)	2194.0	6.6	B2/2500		
BH (60°-80°)	336.4	1.0	B1/500		G1/500
BVH (80°-90°)	15.6	0.0			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°	54°	55°	65°	75°	85°
0°	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0
2.5°	15477.0	15316.5	15328.8	15273.3	15199.2	15254.7	15014.0	15069.5	15063.4	14736.2	14520.1
5°	15088.1	15260.9	15081.9	15230.1	15088.1	15242.4	15094.2	14983.1	14804.1	14563.3	14162.0
7.5°	14427.5	14260.8	14310.2	14495.4	14526.3	14872.0	14686.8	14828.8	14754.7	14279.3	13729.9
10°	13100.2	13063.1	13310.1	13557.0	13859.5	14229.9	14371.9	14291.7	14236.1	14057.1	13322.4
12.5°	12081.6	12186.5	12180.3	12587.8	13100.2	13310.1	13680.5	13668.2	13976.8	13643.5	12939.7
15°	11112.3	11167.9	11427.2	11680.3	12248.2	12847.1	13303.9	13365.7	13736.1	13501.5	12643.3
17.5°	10519.7	10439.4	10643.1	10945.6	11525.9	12310.0	12816.2	12964.4	13470.6	13421.2	12303.8
20°	9933.2	9933.2	10099.9	10457.9	10988.8	11871.7	12773.0	12729.8	13470.6	13328.6	11939.6
22.5°	9735.6	9834.4	9877.6	10149.3	10778.9	11538.3	12587.8	12668.0	13575.6	13285.4	11779.1
25°	10007.3	9877.6	9890.0	10106.0	10698.7	11377.8	12452.0	12631.0	13766.9	13501.5	11649.4
27.5°	10050.5	10180.1	10217.2	10365.3	10760.4	11427.2	12791.5	13155.8	14242.3	14007.7	11686.5
30°	10427.1	10556.7	10550.5	10803.6	11075.3	11828.4	13550.9	13624.9	15223.9	14643.6	11914.9
32.5°	10883.9	11019.7	11062.9	11359.3	11575.3	12563.1	14476.9	14668.3	16168.4	15643.7	12513.7
35°	11451.9	11402.5	11600.0	11896.4	12359.4	13637.3	15606.6	15927.7	17187.1	16940.1	13131.1
37.5°	12161.8	12100.1	12291.5	12773.0	13402.7	14909.0	16650.0	16859.9	17927.9	18143.9	14273.2
40°	12661.9	12686.6	13266.9	13915.1	14581.8	16119.0	17310.5	17514.2	18446.5	19267.5	15137.4
42.5°	13495.3	13649.6	14347.2	15137.4	15835.1	17026.5	17847.6	18045.2	18687.2	20168.9	16304.2
45°	14705.3	14637.4	15409.1	16291.9	17063.6	17971.1	18483.5	18415.6	18829.2	21064.0	17038.9
47.5°	16261.0	16273.4	16785.8	17538.9	18341.5	18792.2	19193.4	18952.7	19125.5	22008.6	18020.5
50°	17322.9	17415.5	17829.1	18600.8	19002.1	19693.5	20205.9	20057.7	20002.2	22576.5	18637.8
52.5°	17594.5	17872.3	18094.6	19057.6	19996.0	21088.7	21743.1	22058.0	21070.2	22767.9	19421.9
55°	15544.9	15791.8	16575.9	17897.0	20372.6	23298.8	24200.2	24206.3	22465.4	23619.9	19971.3
57.5°	12427.3	11927.2	12408.8	13810.1	17224.1	23206.2	25397.8	25107.7	23163.0	23119.8	19495.9
60°	8593.5	8470.1	8500.9	9056.5	11921.0	18458.8	22632.1	23008.7	21329.5	20039.2	15433.8
62.5°	6809.4	6704.4	6568.6	6506.9	7402.0	11501.3	15964.7	16495.6	14915.2	12995.2	9149.1
65°	5333.9	5272.2	5290.7	5537.6	5531.5	6525.4	8729.3	8513.3	6815.6	5037.6	2876.9
67.5°	3599.2	3691.8	3765.8	4512.8	4895.6	4543.7	4216.5	4093.0	2216.3	932.2	635.9
70°	2024.9	2037.3	2117.5	2821.3	3716.5	3525.1	2907.7	2907.7	1105.1	339.5	364.2
72.5°	1105.1	1068.0	993.9	1216.2	1654.5	1679.2	1296.4	1129.8	327.2	222.2	203.7
75°	537.1	530.9	456.8	376.6	358.1	296.3	228.4	209.9	148.2	142.0	123.5
77.5°	111.1	104.9	55.6	55.6	61.7	67.9	86.4	86.4	104.9	104.9	86.4
80°	0.0	0.0	6.2	24.7	43.2	61.7	74.1	74.1	86.4	86.4	67.9
82.5°	0.0	0.0	6.2	18.5	37.0	55.6	67.9	74.1	86.4	92.6	74.1
85°	0.0	0.0	0.0	12.3	30.9	43.2	37.0	37.0	30.9	24.7	12.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0	14625.0
2.5°	14409.0	14396.6	14112.6	13952.1	13662.0	13408.9	13205.1	13057.0	13057.0	12964.4	12877.9
5°	14001.5	13896.6	13291.6	12902.6	12353.2	11945.7	11667.9	11451.9	11112.3	11204.9	10840.7
7.5°	13495.3	13229.8	12427.3	11834.6	11075.3	10495.0	9902.3	9377.6	8871.3	8642.9	8766.4
10°	12952.0	12489.0	11408.6	10470.3	9525.7	8463.9	7772.5	6932.9	6414.3	6383.4	6247.6
12.5°	12377.9	11853.1	10538.2	9241.7	8000.9	6723.0	5667.3	4883.2	4531.4	4142.4	4216.5
15°	11945.7	11167.9	9568.9	8007.0	6358.7	5068.5	4006.6	3401.6	3068.2	2975.6	2944.8
17.5°	11476.6	10643.1	8581.2	6692.1	4988.2	3648.5	2883.0	2592.9	2463.2	2463.2	2444.7
20°	10988.8	10050.5	7599.6	5469.7	3741.1	2722.5	2308.9	2216.3	2210.1	2203.9	2203.9
22.5°	10667.8	9371.4	6710.6	4346.2	2821.3	2179.2	2006.4	1969.3	1994.0	2068.1	2068.1
25°	10328.3	8717.0	5729.0	3352.2	2185.4	1870.6	1771.8	1796.5	1858.2	1926.1	1901.4
27.5°	9982.6	8291.0	4803.0	2629.9	1790.3	1636.0	1598.9	1654.5	1722.4	1784.1	1765.6
30°	9902.3	7834.2	3926.4	1994.0	1537.2	1426.1	1450.8	1500.2	1568.1	1592.8	1617.5
32.5°	10025.8	7476.1	3216.4	1636.0	1339.7	1308.8	1308.8	1333.5	1376.7	1432.3	1413.7
35°	10377.7	7272.4	2543.5	1419.9	1228.5	1197.7	1191.5	1216.2	1240.9	1259.4	1240.9
37.5°	10914.8	7111.9	2080.5	1259.4	1154.4	1105.1	1092.7	1086.5	1111.2	1117.4	1129.8
40°	11600.0	7198.3	1765.6	1160.6	1080.4	1024.8	987.8	987.8	987.8	1006.3	1012.5
42.5°	12340.8	7315.6	1524.9	1105.1	1012.5	944.5	907.5	895.2	907.5	932.2	926.0
45°	13118.7	7544.0	1370.5	1018.6	950.7	864.3	814.9	802.6	833.4	882.8	876.6
47.5°	13847.2	7871.2	1253.2	963.1	889.0	808.7	747.0	734.6	790.2	858.1	864.3
50°	14575.7	8439.2	1210.0	919.9	845.8	753.2	697.6	685.3	747.0	833.4	851.9
52.5°	15415.3	9050.4	1179.1	864.3	796.4	710.0	648.2	635.9	703.8	814.9	821.1
55°	15964.7	9568.9	1154.4	765.5	703.8	642.0	592.7	586.5	660.6	759.3	784.0
57.5°	15322.7	8846.6	1068.0	666.7	598.8	568.0	524.7	524.7	586.5	679.1	697.6
60°	11618.5	5821.6	759.3	537.1	506.2	487.7	469.2	469.2	518.6	586.5	592.7
62.5°	6803.2	3136.1	487.7	432.1	432.1	413.6	382.8	382.8	432.1	469.2	475.4
65°	2018.7	1006.3	395.1	370.4	364.2	333.4	302.5	296.3	333.4	351.9	345.7
67.5°	580.3	463.0	327.2	308.7	302.5	253.1	234.6	228.4	234.6	222.2	216.1
70°	345.7	314.8	253.1	259.3	228.4	185.2	166.7	160.5	148.2	129.6	117.3
72.5°	191.4	191.4	185.2	197.6	160.5	123.5	104.9	86.4	67.9	55.6	49.4
75°	117.3	123.5	129.6	135.8	104.9	80.3	67.9	43.2	24.7	12.3	12.3
77.5°	80.3	86.4	92.6	98.8	86.4	74.1	55.6	30.9	6.2	0.0	0.0
80°	61.7	67.9	80.3	86.4	92.6	98.8	74.1	30.9	6.2	0.0	0.0
82.5°	67.9	74.1	92.6	86.4	86.4	86.4	67.9	30.9	6.2	0.0	0.0
85°	12.3	18.5	30.9	30.9	43.2	55.6	43.2	12.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)