

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: P532677

Luminaire Tested: **GALN-SA8A-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532677  
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-SA8A-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA 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: 21554 lumens  
Efficiency: N/A  
Efficacy: 88.3 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

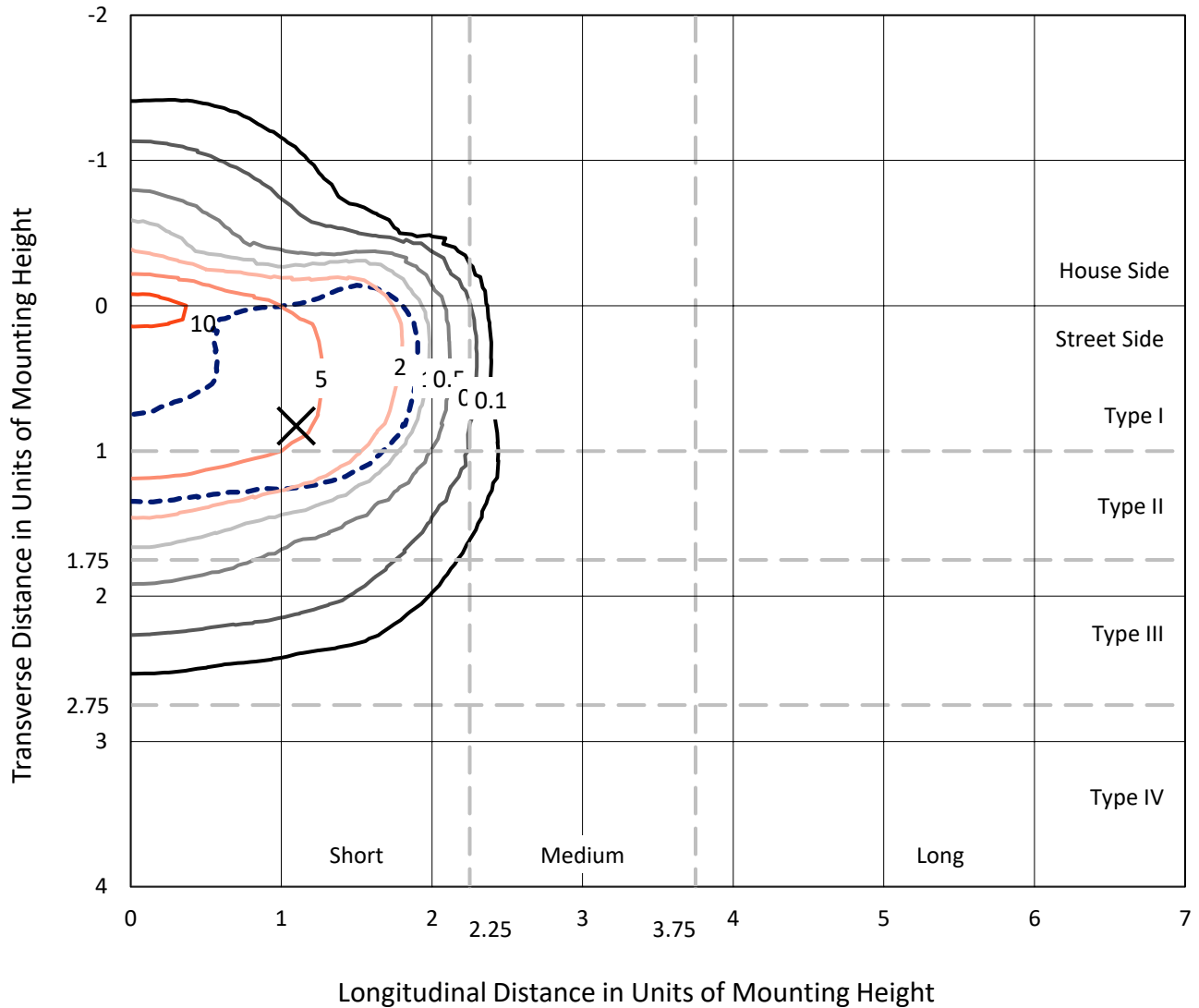
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

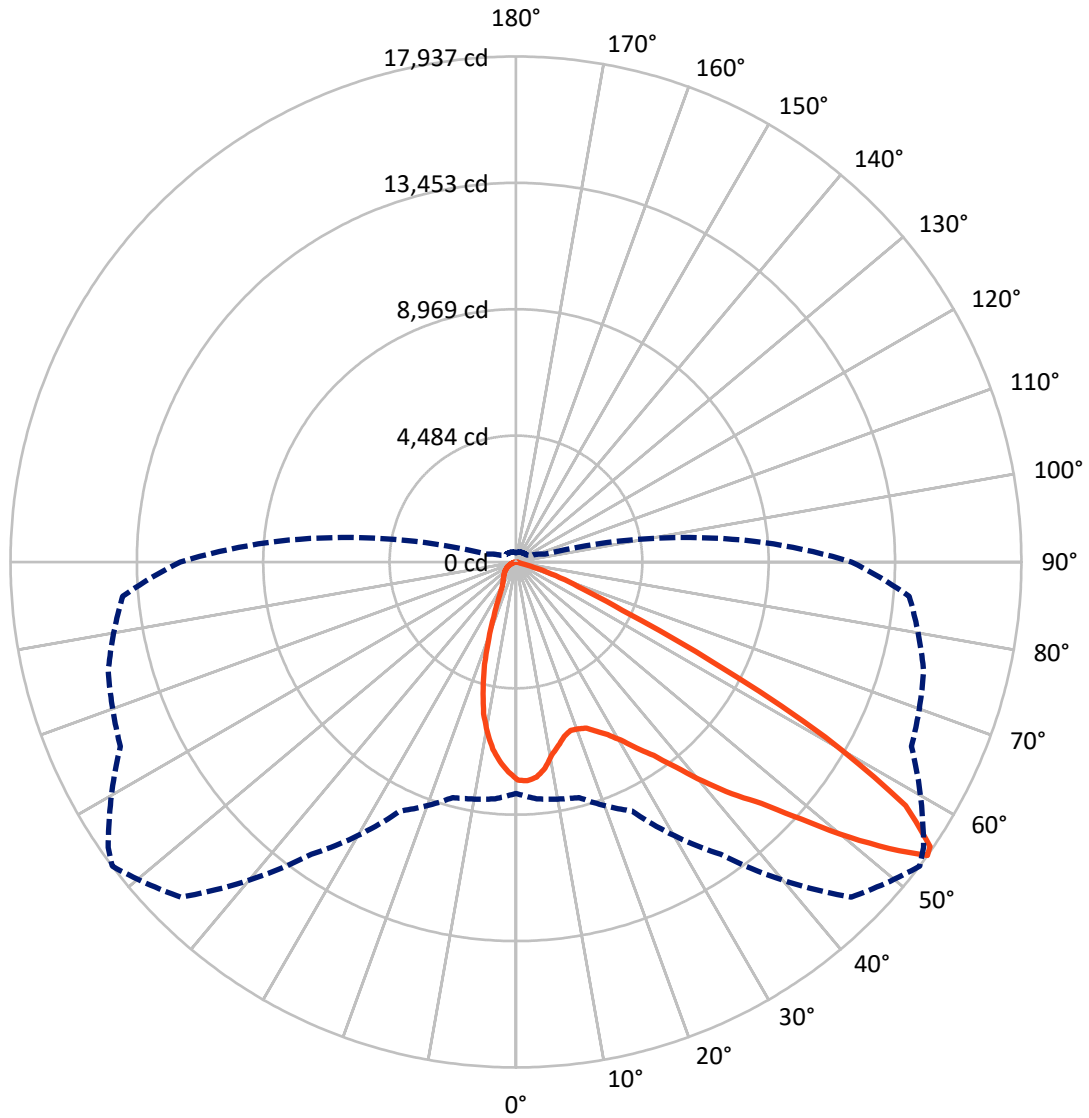
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	3566.2	0.0	3566.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	17987.8	0.0	17987.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	21554.0	0.0	21554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.2	3.1
10°-20°	1522.9	7.1
20°-30°	2164.3	10.0
30°-40°	3340.1	15.5
40°-50°	5237.0	24.3
50°-60°	6083.5	28.2
60°-70°	2298.7	10.7
70°-80°	218.6	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°	21554.0	100.0
0°-180°	21554.0	100.0

**Coefficient of Utilization**



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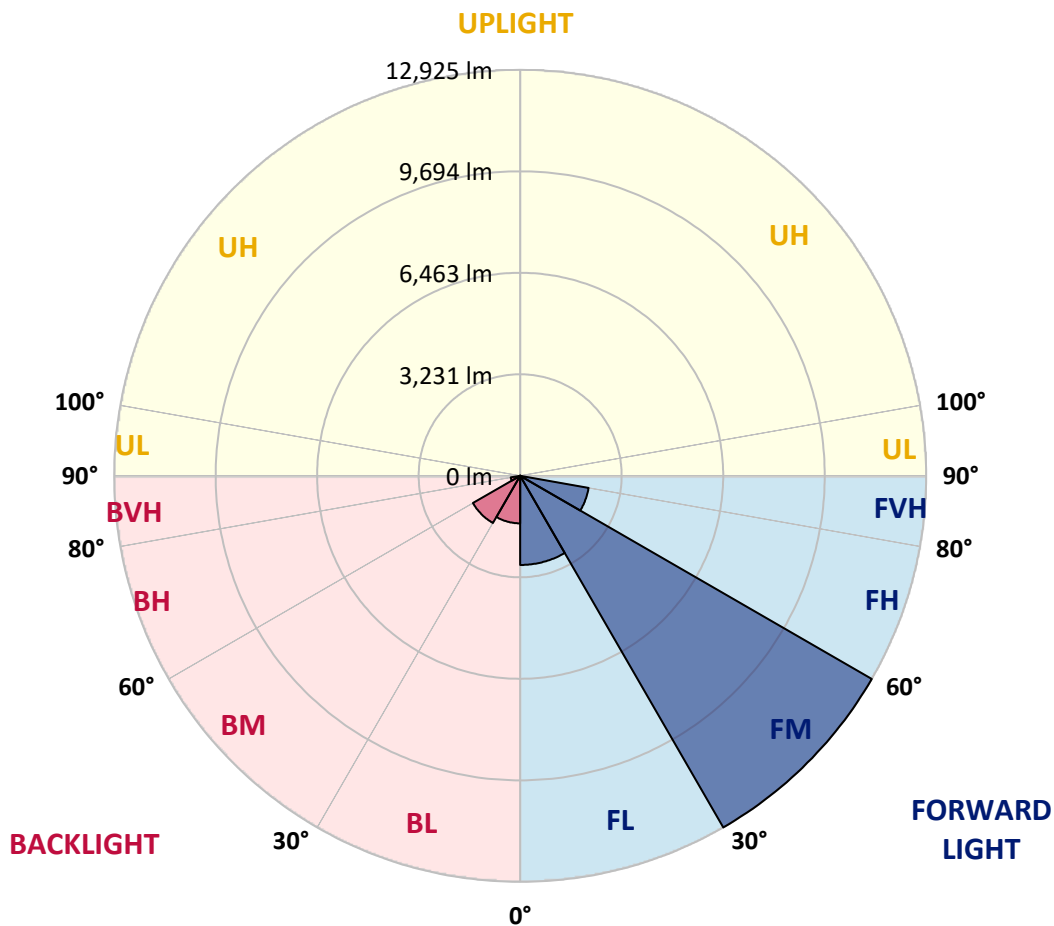
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2838.1	13.2			
FM	(30°-60°)	12925.3	60.0			
FH	(60°-80°)	2211.8	10.3			G2/5000
FVH	(80°-90°)	12.7	0.1			G1/100
BL	(0°-30°)	1513.3	7.0	B3/2500		
BM	(30°-60°)	1735.4	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°	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8
2.5°	7701.7	7633.4	7701.7	7709.7	7757.9	7802.1	7774.0	7838.2	7802.1	7761.9	7749.9
5°	7079.3	7171.6	7175.7	7320.2	7288.1	7553.1	7669.6	7637.4	7834.2	7822.1	7794.0
7.5°	6521.1	6485.0	6533.2	6701.8	6914.6	7219.8	7388.5	7384.5	7665.5	7866.3	7846.2
10°	6003.1	5999.1	6099.5	6232.0	6412.7	6733.9	6966.8	7083.3	7521.0	7826.2	7870.3
12.5°	5653.8	5637.7	5746.1	5854.6	6139.7	6388.6	6685.8	6742.0	7243.9	7685.6	7757.9
15°	5424.9	5461.0	5469.1	5677.9	5858.6	6187.8	6420.7	6537.2	7115.4	7573.2	7850.3
17.5°	5384.8	5432.9	5437.0	5609.6	5802.4	6079.4	6284.2	6440.8	7007.0	7629.4	7854.3
20°	5465.1	5437.0	5461.0	5569.5	5758.2	6023.2	6320.4	6372.6	6970.9	7657.5	7898.4
22.5°	5693.9	5685.9	5625.7	5714.0	5846.5	6123.6	6404.7	6485.0	7075.3	7802.1	7934.6
25°	5946.9	5991.1	5934.9	5922.8	6015.2	6288.2	6661.7	6766.1	7424.6	8063.1	8047.0
27.5°	6420.7	6376.6	6376.6	6320.4	6296.3	6428.8	6938.7	7111.4	7814.1	8400.4	8175.5
30°	6874.5	6922.7	6886.5	6906.6	6746.0	6733.9	7332.3	7545.1	8504.8	8914.4	8448.6
32.5°	7593.3	7529.0	7589.2	7537.0	7324.2	7107.4	7866.3	8087.2	9340.0	9504.6	8858.1
35°	8191.6	8163.5	8420.4	8412.4	8067.1	7854.3	8432.5	8761.8	9922.2	10211.3	9340.0
37.5°	9042.8	8990.6	9283.8	9424.3	9115.1	8797.9	9243.6	9625.1	10464.3	10777.5	9833.9
40°	9918.2	10050.7	10444.2	10677.1	10347.9	9926.3	10235.4	10351.9	10825.7	11147.0	10171.2
42.5°	11026.5	11219.2	11620.8	11821.6	11793.4	11335.7	11243.3	11239.3	11086.7	11042.6	10420.2
45°	12090.6	12018.3	12636.7	13074.4	13427.7	13295.2	12215.1	12094.6	11500.3	11199.2	10484.4
47.5°	12556.4	12532.3	12953.9	13732.9	14937.6	15102.2	13628.5	13162.7	12199.0	11857.7	10833.7
50°	11954.1	12078.5	12496.2	13359.5	15206.6	16463.4	15363.2	14736.8	13014.2	12660.8	11660.9
52.5°	9986.5	10070.8	10468.3	11564.6	14291.1	17266.5	17025.6	16664.2	14511.9	13925.7	13102.5
54°	8211.6	8436.5	8653.3	9753.6	12660.8	16820.8	17937.1	17660.1	15487.7	14977.7	14010.0
55°	7151.6	7284.1	7440.7	8536.9	11532.4	16065.9	17832.7	17856.8	16142.2	15307.0	14620.3
57.5°	5224.1	5316.5	5155.9	5641.7	7918.5	13046.3	16310.9	16961.4	17025.6	15800.9	14993.8
60°	3991.4	4031.5	3850.8	3927.1	4923.0	8954.5	12616.6	13399.6	15359.2	13809.2	12700.9
62.5°	3095.9	3104.0	3099.9	3232.5	3393.1	5268.3	7890.4	8585.1	10588.8	9805.8	8625.2
65°	2280.8	2244.6	2308.9	2710.4	2895.2	3312.8	4156.0	4662.0	5754.2	4858.7	3473.4
67.5°	1477.7	1489.7	1554.0	2015.8	2481.6	2541.8	2557.9	2517.7	2521.7	1389.4	871.4
70°	887.4	907.5	887.4	1140.4	1774.8	1823.0	1666.4	1626.3	1268.9	329.3	325.3
72.5°	526.0	497.9	445.7	489.9	738.8	883.4	795.1	791.0	497.9	192.7	192.7
75°	220.9	200.8	164.6	148.6	196.8	188.7	188.7	168.6	132.5	128.5	120.5
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	40.2	40.2	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°	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8	7741.8
2.5°	7778.0	7774.0	7677.6	7521.0	7484.8	7352.3	7336.3	7256.0	7300.1	7151.6	7135.5
5°	7713.7	7665.5	7549.1	7448.7	7155.6	6946.8	6782.1	6581.4	6464.9	6485.0	6408.7
7.5°	7806.1	7681.6	7476.8	7127.5	6770.1	6404.7	6207.9	5798.3	5649.8	5428.9	5396.8
10°	7709.7	7617.4	7300.1	6721.9	6228.0	5702.0	5240.2	4786.4	4441.1	4292.5	4260.4
12.5°	7701.7	7541.1	7011.0	6368.5	5653.8	4898.9	4228.3	3662.1	3320.8	3128.1	3083.9
15°	7577.2	7384.5	6685.8	5822.4	4834.6	3895.0	3164.2	2618.1	2357.1	2244.6	2276.8
17.5°	7589.2	7300.1	6360.5	5244.2	4027.5	2859.0	2160.3	1879.2	1811.0	1839.1	1839.1
20°	7577.2	7111.4	5967.0	4577.6	3083.9	1983.6	1586.1	1485.7	1529.9	1618.2	1598.2
22.5°	7513.0	7023.1	5605.6	3874.9	2268.7	1469.7	1272.9	1276.9	1345.2	1453.6	1477.7
25°	7561.1	6826.3	5147.8	3164.2	1654.4	1172.5	1104.3	1132.4	1204.6	1285.0	1301.0
27.5°	7525.0	6685.8	4670.0	2457.5	1208.7	1007.9	1003.9	1036.0	1068.1	1128.3	1128.3
30°	7565.2	6557.3	4200.2	1827.0	995.8	923.6	907.5	931.6	963.7	975.8	971.7
32.5°	7713.7	6460.9	3658.1	1365.3	879.4	843.2	843.2	843.2	839.2	855.3	859.3
35°	8039.0	6477.0	3180.3	1056.1	803.1	775.0	762.9	746.9	738.8	746.9	750.9
37.5°	8392.3	6468.9	2686.4	899.5	746.9	722.8	694.7	670.6	666.6	674.6	662.6
40°	8548.9	6545.2	2228.6	807.1	694.7	666.6	622.4	602.3	606.3	614.4	606.3
42.5°	8761.8	6569.3	1931.4	734.8	646.5	602.3	574.2	550.1	546.1	558.2	554.1
45°	8757.7	6432.8	1618.2	694.7	602.3	554.1	518.0	497.9	497.9	505.9	510.0
47.5°	9014.7	6412.7	1389.4	658.5	570.2	522.0	477.8	461.8	457.8	457.8	449.7
50°	9613.0	6693.8	1212.7	618.4	530.0	485.9	449.7	429.7	413.6	405.6	401.5
52.5°	10781.5	7569.2	1076.1	570.2	485.9	449.7	417.6	401.5	381.5	361.4	357.4
54°	11913.9	8472.6	1068.1	530.0	449.7	425.6	397.5	389.5	365.4	337.3	329.3
55°	12423.9	8998.7	1096.2	497.9	425.6	409.6	385.5	377.5	353.4	321.2	317.2
57.5°	12845.5	9203.5	1080.2	413.6	385.5	381.5	361.4	349.3	321.2	277.1	269.0
60°	10339.8	6958.8	775.0	365.4	353.4	345.3	329.3	321.2	285.1	236.9	232.9
62.5°	6533.2	4003.4	493.9	321.2	309.2	297.1	277.1	269.0	236.9	188.7	176.7
65°	2782.7	1658.4	333.3	285.1	265.0	244.9	228.9	216.8	188.7	140.5	136.5
67.5°	722.8	590.3	277.1	249.0	220.9	192.7	180.7	160.6	128.5	96.4	92.4
70°	325.3	297.1	232.9	208.8	176.7	148.6	132.5	112.4	84.3	64.2	60.2
72.5°	192.7	188.7	176.7	156.6	132.5	112.4	96.4	76.3	56.2	36.1	36.1
75°	120.5	116.4	120.5	108.4	92.4	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	40.2	24.1	8.0	0.0	0.0
85°	16.1	12.0	20.1	28.1	40.2	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)