

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: P529169

Luminaire Tested: **GALN-SA4B-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529169
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-SA4B-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA 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: 13164 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

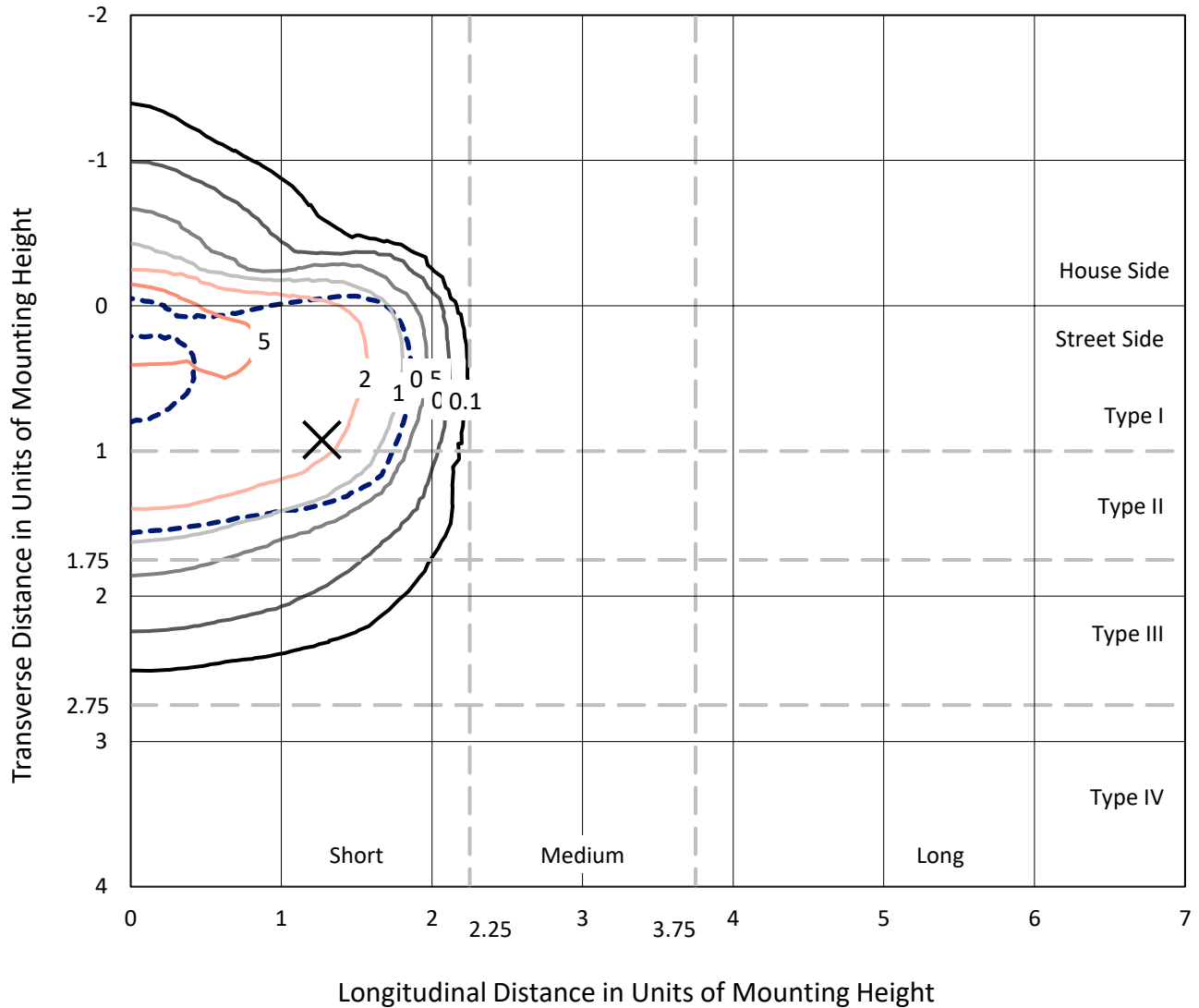
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

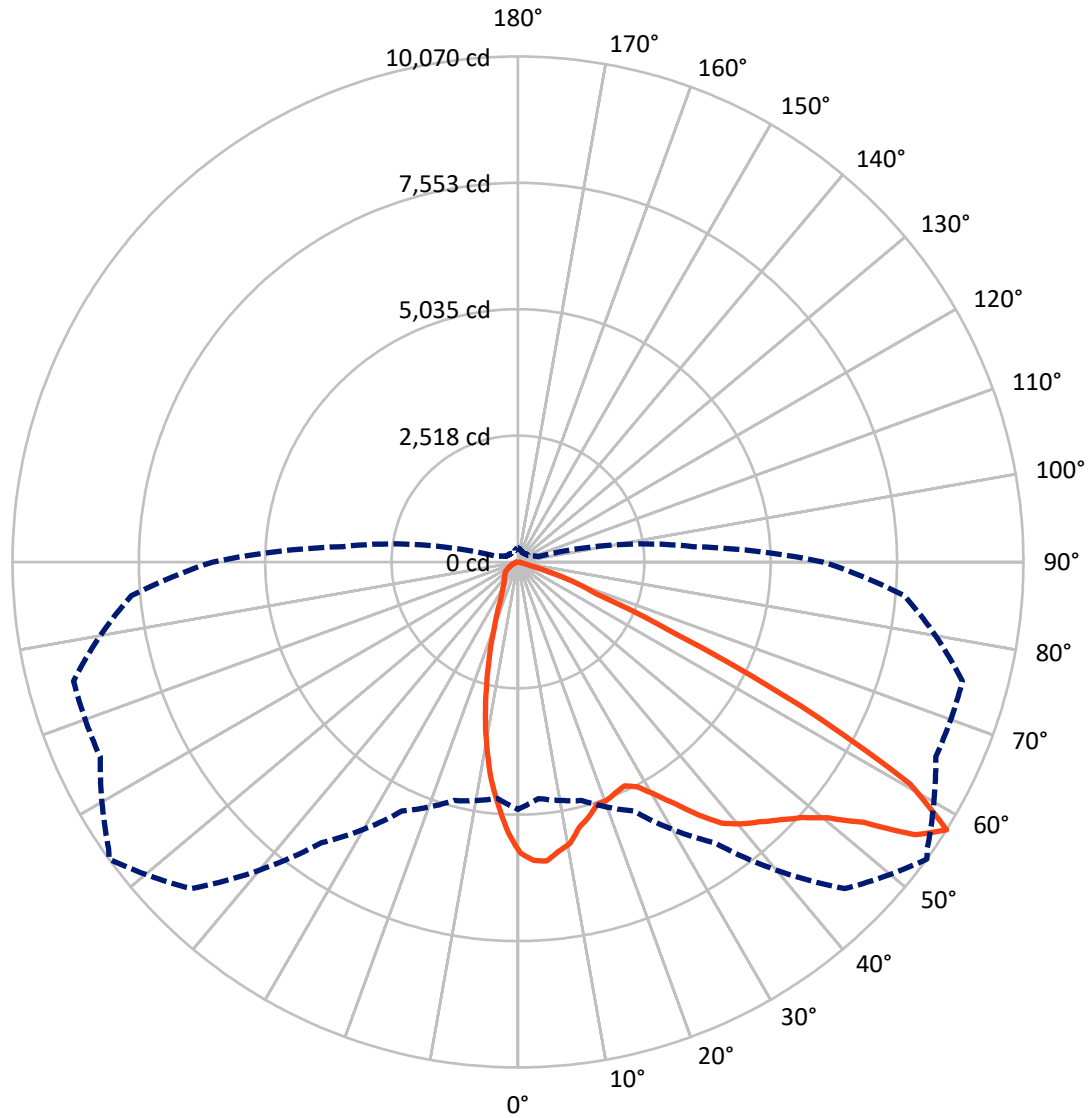
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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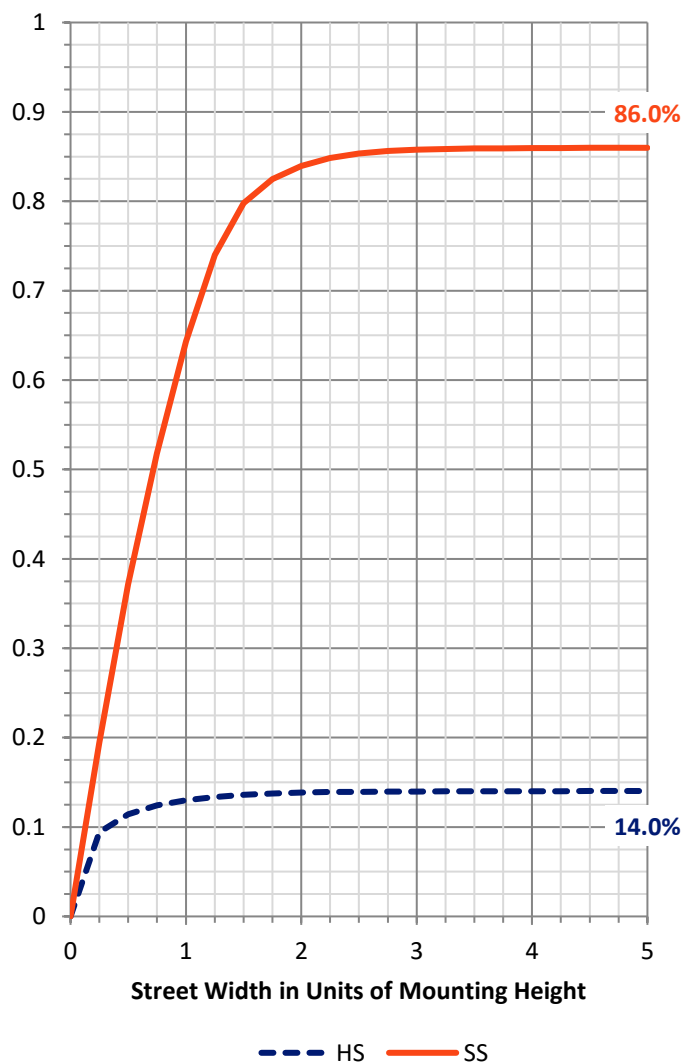
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.3	0.0	1860.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11303.7	0.0	11303.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	13164.0	0.0	13164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.3	3.7
10°-20°	1036.0	7.9
20°-30°	1372.9	10.4
30°-40°	1995.3	15.2
40°-50°	2958.7	22.5
50°-60°	3699.8	28.1
60°-70°	1459.4	11.1
70°-80°	145.3	1.1
80°-90°	11.3	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°	13164.0	100.0
0°-180°	13164.0	100.0

Coefficient of Utilization



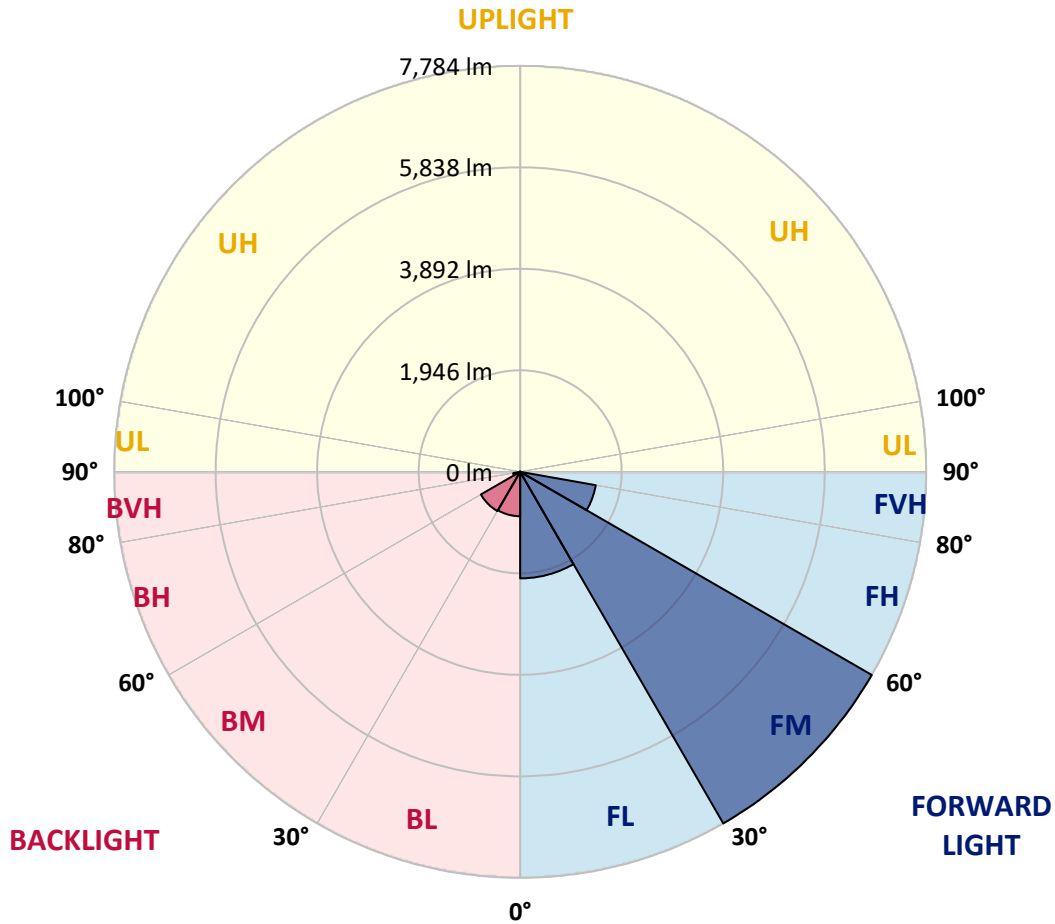
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2043.4	15.5			
FM (30°-60°)	7783.8	59.1			
FH (60°-80°)	1471.3	11.2			G1/1800
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	850.8	6.5	B2/1000		
BM (30°-60°)	869.9	6.6	B1/1000		
BH (60°-80°)	133.4	1.0	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9
2.5°	6136.7	6073.1	6078.0	6055.9	6026.6	6048.6	5953.1	5975.2	5972.7	5843.0	5757.3
5°	5982.5	6051.0	5980.1	6038.8	5982.5	6043.7	5985.0	5940.9	5869.9	5774.4	5615.3
7.5°	5720.6	5654.5	5674.1	5747.5	5759.8	5896.8	5823.4	5879.7	5850.3	5661.8	5444.0
10°	5194.3	5179.6	5277.5	5375.4	5495.4	5642.3	5698.6	5666.7	5644.7	5573.7	5282.4
12.5°	4790.4	4832.0	4829.6	4991.1	5194.3	5277.5	5424.4	5419.5	5541.9	5409.7	5130.7
15°	4406.1	4428.1	4530.9	4631.3	4856.5	5093.9	5275.1	5299.6	5446.4	5353.4	5013.2
17.5°	4171.1	4139.3	4220.1	4340.0	4570.1	4881.0	5081.7	5140.5	5341.2	5321.6	4878.5
20°	3938.6	3938.6	4004.7	4146.6	4357.1	4707.2	5064.6	5047.4	5341.2	5284.9	4734.1
22.5°	3860.2	3899.4	3916.5	4024.2	4273.9	4575.0	4991.1	5023.0	5382.8	5267.7	4670.5
25°	3967.9	3916.5	3921.4	4007.1	4242.1	4511.4	4937.3	5008.3	5458.7	5353.4	4619.1
27.5°	3985.1	4036.5	4051.2	4109.9	4266.6	4530.9	5071.9	5216.3	5647.2	5554.1	4633.8
30°	4134.4	4185.8	4183.3	4283.7	4391.4	4690.1	5373.0	5402.4	6036.4	5806.3	4724.3
32.5°	4315.5	4369.4	4386.5	4504.0	4589.7	4981.3	5740.2	5816.1	6410.9	6202.8	4961.8
35°	4540.7	4521.1	4599.5	4717.0	4900.6	5407.3	6188.1	6315.4	6814.8	6716.9	5206.5
37.5°	4822.2	4797.8	4873.6	5064.6	5314.2	5911.5	6601.8	6685.0	7108.5	7194.2	5659.4
40°	5020.5	5030.3	5260.4	5517.4	5781.8	6391.3	6863.7	6944.5	7314.1	7639.7	6002.1
42.5°	5351.0	5412.2	5688.8	6002.1	6278.7	6751.1	7076.7	7155.0	7409.6	7997.1	6464.7
45°	5830.7	5803.8	6109.8	6459.8	6765.8	7125.6	7328.8	7301.9	7465.9	8352.0	6756.0
47.5°	6447.6	6452.5	6655.7	6954.3	7272.5	7451.2	7610.3	7514.9	7583.4	8726.5	7145.2
50°	6868.6	6905.3	7069.3	7375.3	7534.4	7808.6	8011.8	7953.0	7931.0	8951.7	7390.0
52.5°	6976.3	7086.5	7174.6	7556.5	7928.5	8361.8	8621.3	8746.1	8354.5	9027.6	7700.9
55°	6163.6	6261.6	6572.4	7096.3	8077.9	9238.1	9595.5	9598.0	8907.7	9365.4	7918.7
57.5°	4927.5	4729.2	4920.1	5475.8	6829.5	9201.4	10070.4	9955.3	9184.3	9167.1	7730.3
60°	3407.4	3358.4	3370.7	3591.0	4726.8	7319.0	8973.8	9123.1	8457.3	7945.7	6119.6
62.5°	2700.0	2658.3	2604.5	2580.0	2935.0	4560.3	6330.1	6540.6	5914.0	5152.7	3627.7
65°	2114.9	2090.5	2097.8	2195.7	2193.3	2587.4	3461.2	3375.6	2702.4	1997.4	1140.7
67.5°	1427.1	1463.8	1493.2	1789.4	1941.1	1801.6	1671.9	1622.9	878.8	369.6	252.1
70°	802.9	807.8	839.6	1118.7	1473.6	1397.7	1152.9	1152.9	438.2	134.6	144.4
72.5°	438.2	423.5	394.1	482.2	656.0	665.8	514.0	448.0	129.7	88.1	80.8
75°	213.0	210.5	181.1	149.3	142.0	117.5	90.6	83.2	58.7	56.3	49.0
77.5°	44.1	41.6	22.0	22.0	24.5	26.9	34.3	34.3	41.6	41.6	34.3
80°	0.0	0.0	2.4	9.8	17.1	24.5	29.4	29.4	34.3	34.3	26.9
82.5°	0.0	0.0	2.4	7.3	14.7	22.0	26.9	29.4	34.3	36.7	29.4
85°	0.0	0.0	0.0	4.9	12.2	17.1	14.7	14.7	12.2	9.8	4.9
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°	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9
2.5°	5713.2	5708.3	5595.7	5532.1	5417.1	5316.7	5235.9	5177.2	5177.2	5140.5	5106.2
5°	5551.7	5510.1	5270.2	5116.0	4898.1	4736.6	4626.4	4540.7	4406.1	4442.8	4298.4
7.5°	5351.0	5245.7	4927.5	4692.5	4391.4	4161.3	3926.3	3718.3	3517.5	3427.0	3475.9
10°	5135.6	4952.0	4523.6	4151.5	3777.0	3356.0	3081.8	2748.9	2543.3	2531.1	2477.2
12.5°	4907.9	4699.8	4178.5	3664.4	3172.4	2665.7	2247.1	1936.2	1796.7	1642.5	1671.9
15°	4736.6	4428.1	3794.1	3174.8	2521.3	2009.7	1588.6	1348.8	1216.6	1179.9	1167.6
17.5°	4550.5	4220.1	3402.5	2653.5	1977.9	1446.7	1143.1	1028.1	976.7	976.7	969.3
20°	4357.1	3985.1	3013.3	2168.8	1483.4	1079.5	915.5	878.8	876.3	873.9	873.9
22.5°	4229.9	3715.8	2660.8	1723.3	1118.7	864.1	795.5	780.9	790.7	820.0	820.0
25°	4095.2	3456.3	2271.6	1329.2	866.5	741.7	702.5	712.3	736.8	763.7	753.9
27.5°	3958.1	3287.4	1904.4	1042.8	709.9	648.7	634.0	656.0	682.9	707.4	700.1
30°	3926.3	3106.3	1556.8	790.7	609.5	565.4	575.2	594.8	621.7	631.5	641.3
32.5°	3975.3	2964.3	1275.3	648.7	531.2	518.9	518.9	528.7	545.9	567.9	560.6
35°	4114.8	2883.5	1008.5	563.0	487.1	474.9	472.4	482.2	492.0	499.4	492.0
37.5°	4327.8	2819.9	824.9	499.4	457.7	438.2	433.3	430.8	440.6	443.1	448.0
40°	4599.5	2854.2	700.1	460.2	428.4	406.3	391.7	391.7	391.7	399.0	401.4
42.5°	4893.2	2900.7	604.6	438.2	401.4	374.5	359.8	354.9	359.8	369.6	367.2
45°	5201.6	2991.3	543.4	403.9	377.0	342.7	323.1	318.2	330.5	350.0	347.6
47.5°	5490.5	3121.0	496.9	381.9	352.5	320.7	296.2	291.3	313.3	340.2	342.7
50°	5779.3	3346.2	479.8	364.7	335.4	298.6	276.6	271.7	296.2	330.5	337.8
52.5°	6112.2	3588.5	467.5	342.7	315.8	281.5	257.0	252.1	279.1	323.1	325.6
55°	6330.1	3794.1	457.7	303.5	279.1	254.6	235.0	232.5	261.9	301.1	310.9
57.5°	6075.5	3507.7	423.5	264.4	237.4	225.2	208.1	208.1	232.5	269.3	276.6
60°	4606.8	2308.3	301.1	213.0	200.7	193.4	186.0	186.0	205.6	232.5	235.0
62.5°	2697.5	1243.5	193.4	171.3	171.3	164.0	151.8	151.8	171.3	186.0	188.5
65°	800.4	399.0	156.7	146.9	144.4	132.2	119.9	117.5	132.2	139.5	137.1
67.5°	230.1	183.6	129.7	122.4	119.9	100.4	93.0	90.6	93.0	88.1	85.7
70°	137.1	124.8	100.4	102.8	90.6	73.4	66.1	63.6	58.7	51.4	46.5
72.5°	75.9	75.9	73.4	78.3	63.6	49.0	41.6	34.3	26.9	22.0	19.6
75°	46.5	49.0	51.4	53.9	41.6	31.8	26.9	17.1	9.8	4.9	4.9
77.5°	31.8	34.3	36.7	39.2	34.3	29.4	22.0	12.2	2.4	0.0	0.0
80°	24.5	26.9	31.8	34.3	36.7	39.2	29.4	12.2	2.4	0.0	0.0
82.5°	26.9	29.4	36.7	34.3	34.3	34.3	26.9	12.2	2.4	0.0	0.0
85°	4.9	7.3	12.2	12.2	17.1	22.0	17.1	4.9	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)