

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: P652544

Luminaire Tested: **GALN-SA8B-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31660.3 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

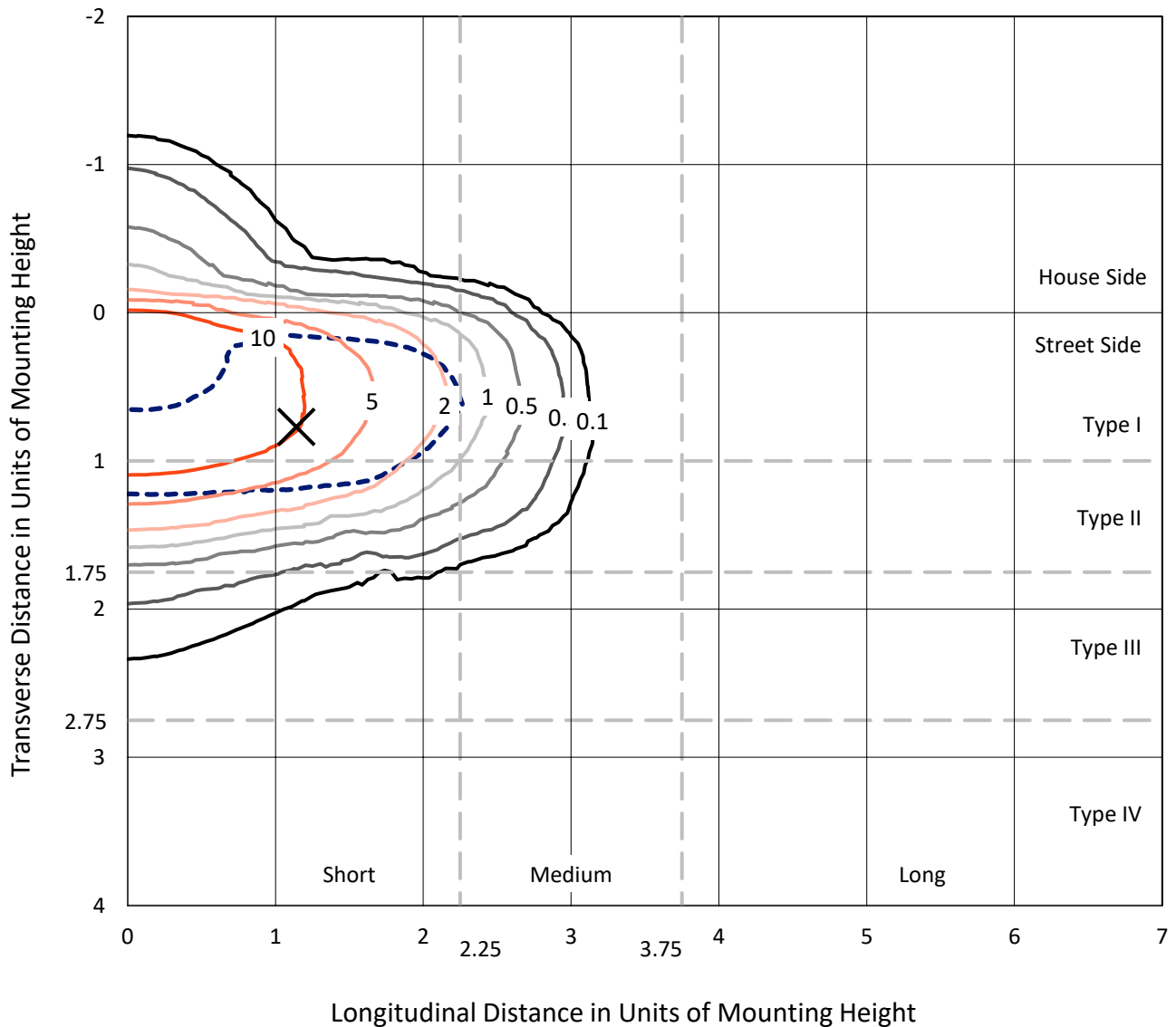
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

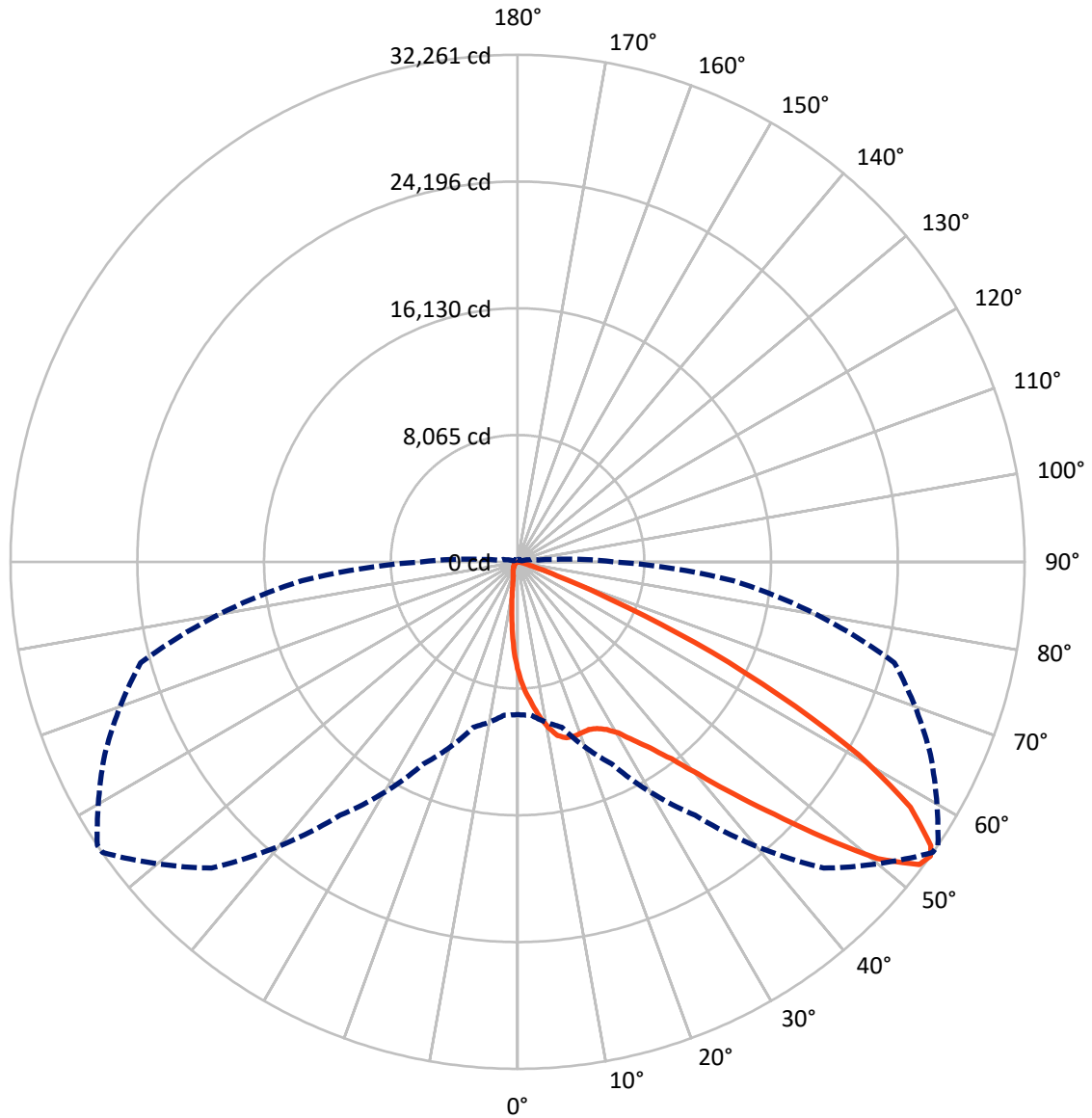
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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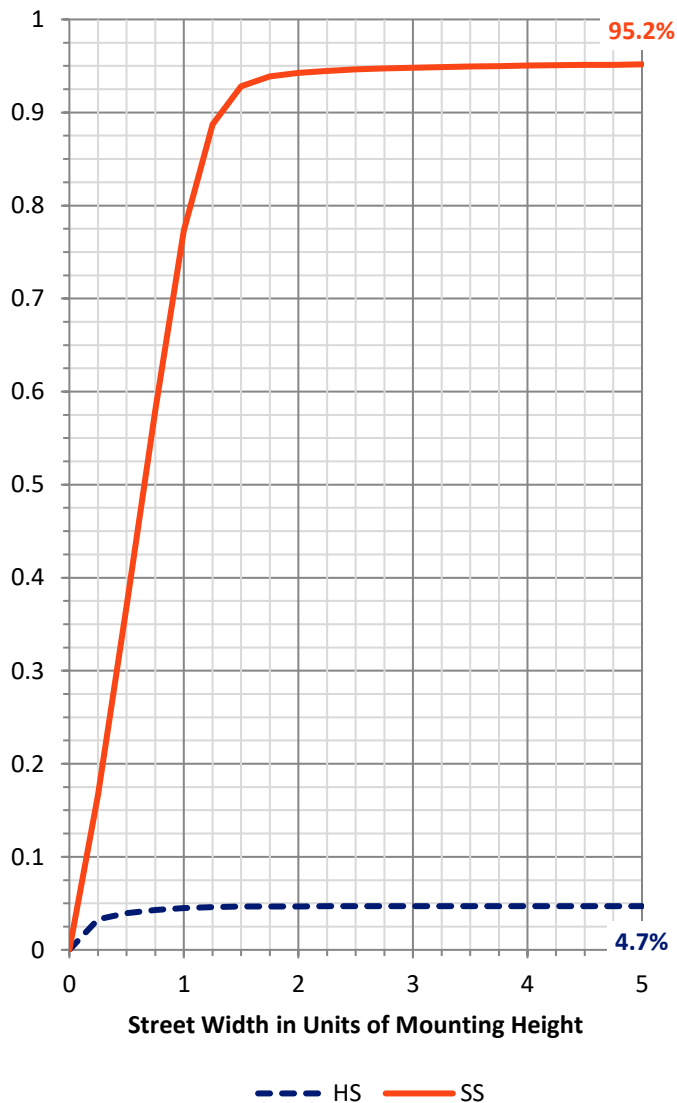
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1497.2	0.0	1497.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	30163.1	0.0	30163.1
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	31660.3	0.0	31660.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.6	2.0
10°-20°	1680.3	5.3
20°-30°	2910.1	9.2
30°-40°	5023.4	15.9
40°-50°	8550.0	27.0
50°-60°	8461.2	26.7
60°-70°	3861.9	12.2
70°-80°	496.0	1.6
80°-90°	55.9	0.2
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°	31660.3	100.0
0°-180°	31660.3	100.0

**Coefficient of Utilization**

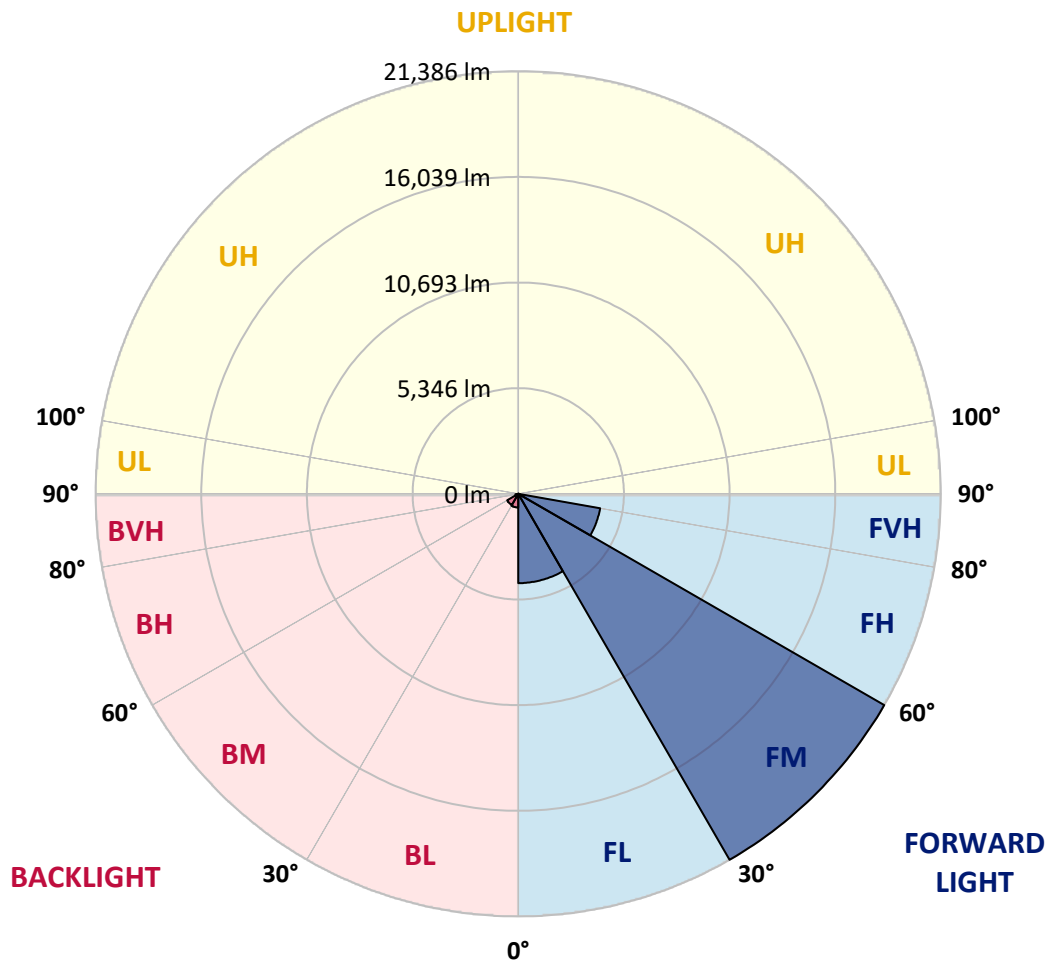


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4519.6	14.3			
FM (30°-60°)	21385.7	67.5			
FH (60°-80°)	4207.9	13.3			G2/5000
FVH (80°-90°)	49.9	0.2			G1/100
BL (0°-30°)	692.4	2.2	B2/1000		
BM (30°-60°)	648.8	2.0	B1/1000		
BH (60°-80°)	149.9	0.5	B1/500		G1/500
BVH (80°-90°)	6.0	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0
2.5°	8939.3	8877.4	8792.0	8725.8	8569.8	8345.6	8108.4	8108.4	7879.9	7561.6	7236.9
5°	10310.7	10270.1	10186.8	10015.9	9840.8	9526.8	9050.4	8967.2	8559.1	7982.4	7375.7
7.5°	10868.2	10887.4	10891.7	10846.9	10763.5	10453.8	9981.7	9924.1	9272.6	8499.3	7557.3
10°	10334.2	10428.1	10520.1	10705.8	10968.6	11043.3	10776.3	10716.5	10075.8	9022.7	7753.9
12.5°	9539.6	9590.8	9642.1	9934.7	10462.4	11066.9	11346.7	11344.6	10802.0	9543.8	8003.8
15°	9170.0	9214.9	9219.2	9349.5	9806.6	10686.7	11590.2	11622.2	11511.2	10186.8	8272.9
17.5°	9247.0	9283.3	9253.4	9285.4	9524.7	10268.0	11562.4	11669.2	12085.8	10804.2	8516.4
20°	9749.0	9819.4	9704.0	9614.3	9687.0	10156.9	11468.5	11618.0	12491.6	11406.5	8738.6
22.5°	10650.3	10688.8	10543.5	10297.9	10169.7	10389.7	11442.8	11590.2	12837.6	11899.9	8866.7
25°	11652.1	11639.4	11479.1	11203.5	10934.4	10859.7	11611.5	11744.0	13123.9	12344.2	8905.2
27.5°	12653.9	12692.4	12423.3	12081.5	11758.9	11564.6	11989.6	12087.9	13446.4	12850.5	8952.2
30°	13818.1	13756.2	13491.2	13100.3	12730.8	12459.6	12598.4	12626.2	13890.7	13521.2	9076.1
32.5°	15332.5	15161.6	14864.8	14181.2	13916.4	13457.1	13491.2	13525.5	14431.1	14185.5	9225.6
35°	17387.4	17378.8	16797.9	15877.2	15232.2	14661.8	14512.3	14540.0	15249.3	15172.3	9556.7
37.5°	19861.0	19895.1	19233.0	18306.0	17118.3	16212.6	15905.0	15909.3	16492.4	16535.2	10060.8
40°	21875.3	21965.0	21569.8	20943.9	19771.2	18355.1	17838.1	17791.1	18239.7	18186.3	10780.6
42.5°	22742.5	22825.8	22973.2	23191.1	22545.9	21377.5	20157.8	20221.9	20358.7	19984.9	11588.1
45°	22317.4	22449.8	23028.8	24374.5	24981.1	24588.1	23133.4	22909.1	22330.2	21939.3	12399.8
47.5°	20546.6	20869.2	21836.8	24077.5	26200.8	27529.4	26491.2	26194.4	24304.0	23366.3	12916.7
50°	17635.2	17654.4	19002.3	21866.8	25568.5	29385.6	29919.6	29697.5	26143.1	24167.2	13177.3
52.5°	12784.2	13205.0	14439.7	17757.0	22830.0	29103.6	32104.8	32012.9	28039.9	24577.4	13553.2
54°	9719.0	9800.2	10898.1	14189.8	19683.7	27555.0	32239.4	32260.8	28981.9	24825.1	13775.4
55°	7967.5	7773.1	8926.5	12087.9	17537.0	26185.8	31799.3	31901.9	29404.8	24953.3	13939.8
57.5°	3776.5	3778.7	4660.8	6376.1	10983.5	20333.0	29110.0	29473.2	29451.8	25173.3	14446.1
60°	1911.8	1924.5	2119.0	2943.5	5425.5	13516.9	24069.0	24934.1	27185.5	25205.4	14612.7
62.5°	1337.2	1322.2	1290.2	1416.2	2283.4	6869.5	17919.3	18671.2	23097.1	23985.7	14083.0
65°	1144.9	1112.9	1023.2	1003.9	1153.4	2736.3	11160.8	12386.9	17635.2	20768.8	12574.9
67.5°	978.3	965.5	884.3	835.2	815.9	1191.9	5758.7	6403.9	12053.7	14928.8	9524.7
70°	830.9	824.5	775.4	713.4	660.0	713.4	2136.1	2646.5	6717.9	8037.9	4494.2
72.5°	675.0	681.4	690.0	610.9	555.4	506.3	912.1	1061.6	2811.0	2873.0	1572.2
75°	591.6	585.3	585.3	531.8	463.6	375.9	502.0	540.4	860.8	798.9	365.2
77.5°	416.5	401.6	470.0	437.9	386.6	267.0	286.2	303.3	356.8	305.5	170.9
80°	288.4	288.4	301.2	393.0	348.2	194.4	175.2	188.0	211.4	181.6	98.2
82.5°	162.3	166.6	196.5	209.3	202.9	130.3	115.4	117.5	141.0	123.9	62.0
85°	19.3	32.0	113.2	111.1	83.3	57.7	64.1	66.2	87.5	76.9	36.3
87.5°	2.1	4.3	23.5	29.9	21.4	23.5	23.5	23.5	29.9	34.1	25.7
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°	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0	7034.0
2.5°	7061.8	6899.4	6512.8	6064.2	5778.0	5312.3	4919.3	4635.3	4564.7	4428.0	4468.7
5°	7053.2	6715.7	5927.5	5094.4	4205.8	3543.7	3050.3	2661.5	2490.6	2377.4	2298.4
7.5°	7057.5	6529.9	5265.3	3938.9	2877.2	2227.9	1770.8	1533.6	1375.6	1309.4	1317.9
10°	7070.3	6320.5	4496.4	2917.8	1941.7	1439.7	1159.9	1046.6	993.2	984.7	982.5
12.5°	7100.2	6092.0	3761.5	2165.9	1358.6	1046.6	939.9	901.4	884.3	884.3	877.9
15°	7132.3	5840.0	3150.6	1610.6	1046.6	899.3	850.2	830.9	820.2	820.2	818.1
17.5°	7132.3	5549.4	2580.4	1249.6	901.4	826.6	788.2	762.5	754.0	754.0	751.9
20°	7087.4	5211.9	2074.1	1006.1	818.1	758.3	719.8	692.1	681.4	677.1	675.0
22.5°	6931.4	4761.2	1651.1	865.1	749.8	698.5	649.3	617.3	608.8	604.5	606.6
25°	6653.8	4252.9	1307.3	760.4	687.8	625.9	583.1	559.7	551.1	551.1	553.2
27.5°	6367.5	3721.0	1035.9	681.4	613.0	557.5	523.4	508.4	506.3	512.7	514.8
30°	6102.7	3187.0	839.5	617.3	546.8	499.8	476.3	472.1	472.1	474.2	476.3
32.5°	5807.9	2719.2	702.7	561.8	493.4	452.9	440.0	440.0	444.3	444.3	448.6
35°	5622.1	2317.6	617.3	508.4	452.9	418.6	410.2	412.3	418.6	427.2	431.5
37.5°	5521.7	1997.2	561.8	465.7	414.4	390.9	382.3	386.6	401.6	416.5	418.6
40°	5530.2	1755.8	517.0	429.3	384.5	358.9	352.5	365.2	380.2	395.2	397.3
42.5°	5624.2	1576.4	474.2	386.6	358.9	322.5	320.4	333.2	339.6	354.6	356.8
45°	5735.3	1446.1	429.3	341.8	311.8	279.8	282.0	292.7	301.2	324.7	328.9
47.5°	5769.4	1356.4	378.1	290.5	256.3	245.7	247.8	254.2	271.3	292.7	294.8
50°	5807.9	1300.9	328.9	245.7	217.9	215.7	217.9	222.1	232.8	241.4	239.3
52.5°	5972.4	1298.8	288.4	213.6	185.9	190.2	192.3	190.2	181.6	168.8	164.5
54°	6126.2	1305.1	269.1	198.6	170.9	177.3	175.2	164.5	143.1	130.3	123.9
55°	6250.1	1311.5	258.4	188.0	162.3	164.5	166.6	145.2	117.5	104.7	100.4
57.5°	6493.6	1296.6	232.8	164.5	143.1	134.6	132.5	96.1	64.1	55.5	51.3
60°	6371.8	1170.6	211.4	141.0	121.8	108.9	89.7	53.4	32.0	23.5	23.5
62.5°	5893.4	993.2	188.0	115.4	100.4	83.3	47.0	29.9	15.0	8.6	6.4
65°	5271.7	835.2	168.8	91.8	79.1	53.4	25.7	19.3	6.4	0.0	0.0
67.5°	3919.6	619.5	143.1	72.7	59.8	34.1	17.1	10.7	2.1	0.0	0.0
70°	1815.6	378.1	121.8	55.5	42.7	25.7	12.8	6.4	0.0	0.0	0.0
72.5°	521.2	237.1	100.4	40.6	29.9	21.4	10.7	4.3	2.1	0.0	0.0
75°	181.6	190.2	74.8	29.9	23.5	15.0	8.6	4.3	2.1	0.0	0.0
77.5°	108.9	153.8	47.0	25.7	19.3	12.8	8.6	4.3	2.1	2.1	0.0
80°	62.0	102.5	29.9	21.4	17.1	10.7	6.4	4.3	2.1	2.1	0.0
82.5°	34.1	49.1	23.5	19.3	15.0	10.7	6.4	4.3	2.1	2.1	2.1
85°	27.8	25.7	19.3	17.1	12.8	8.6	6.4	2.1	0.0	0.0	0.0
87.5°	21.4	17.1	17.1	17.1	12.8	8.6	6.4	2.1	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)