

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: P450675

Luminaire Tested: **GALN-SA1C-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4368 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

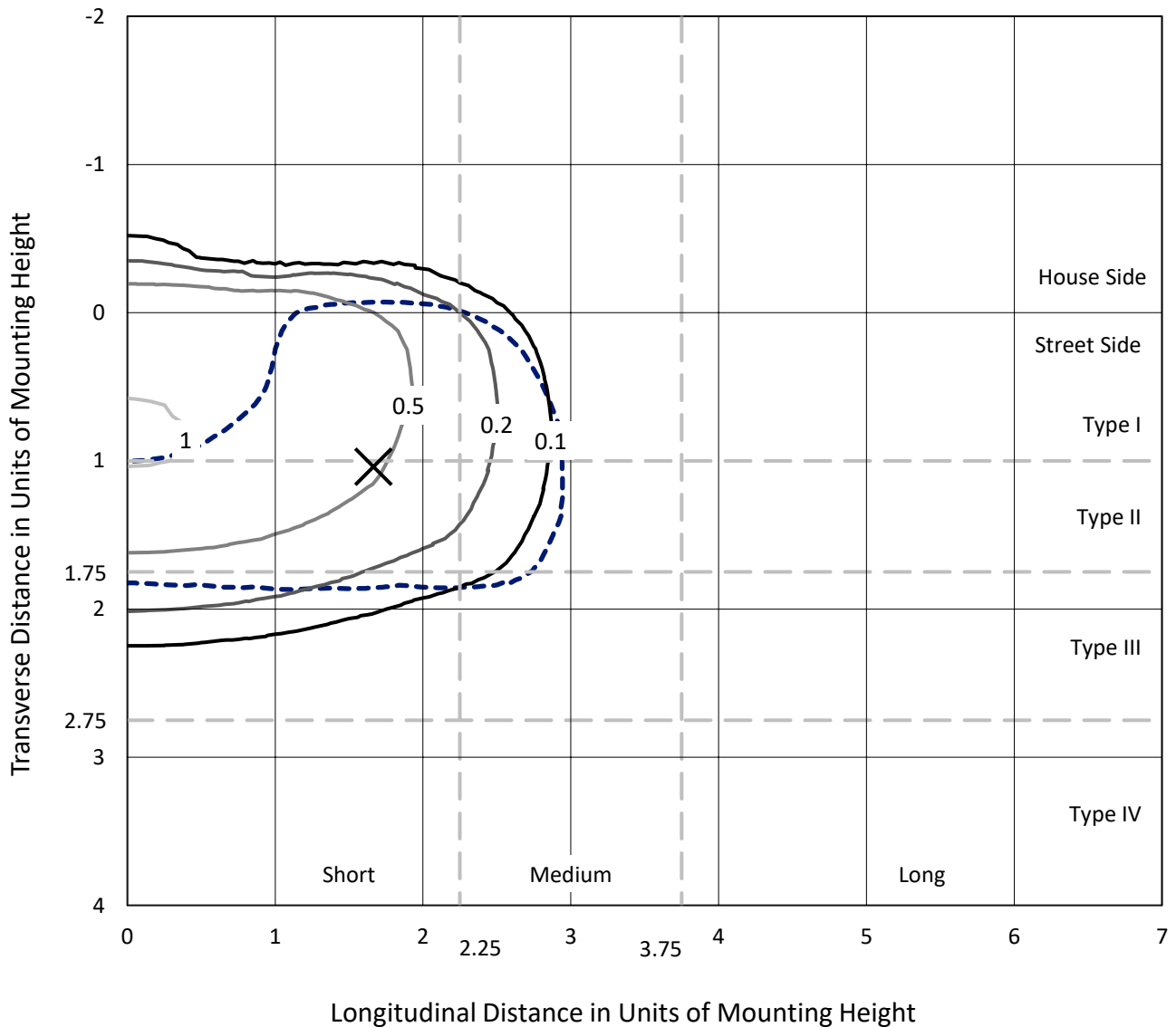
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

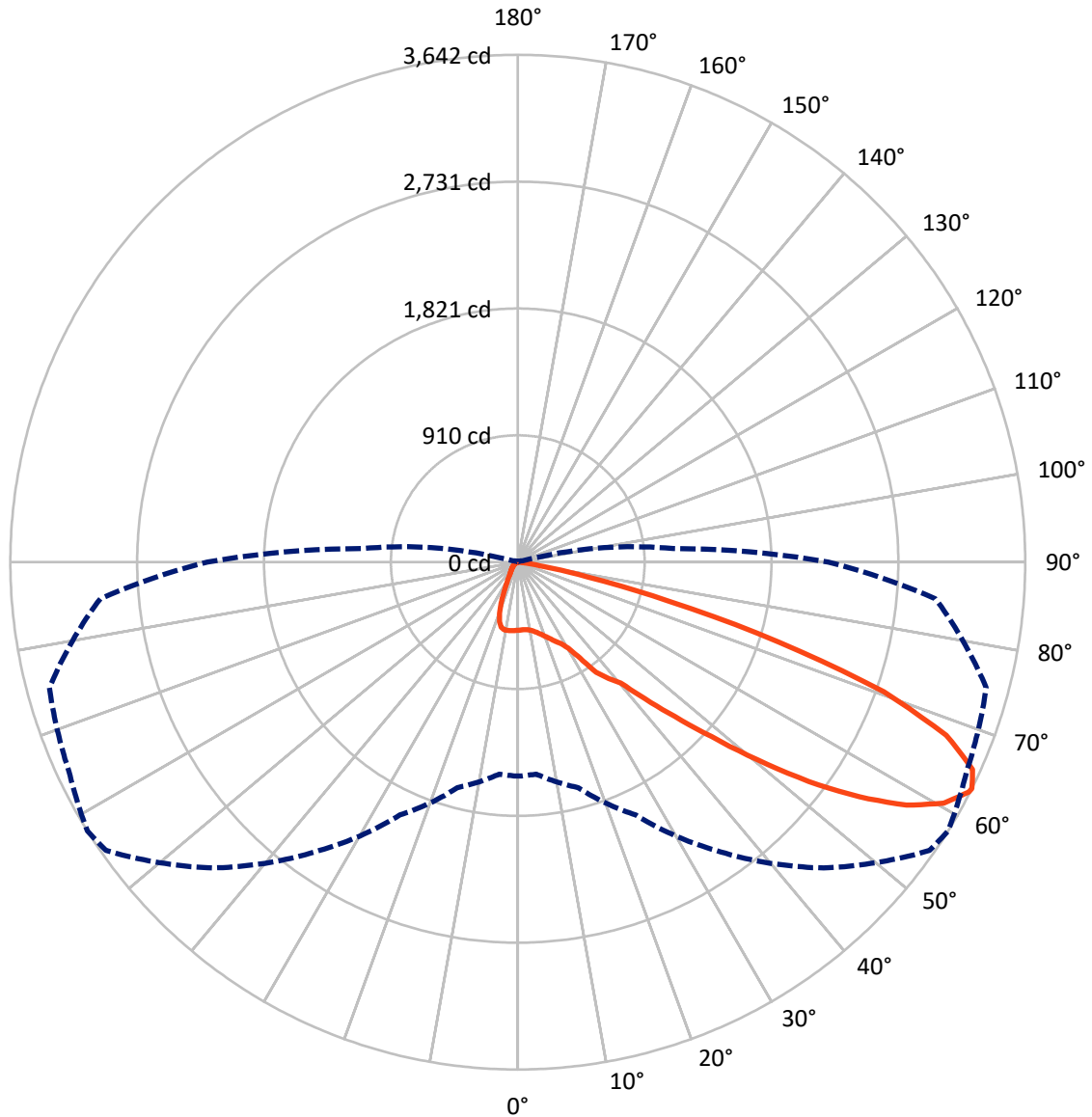
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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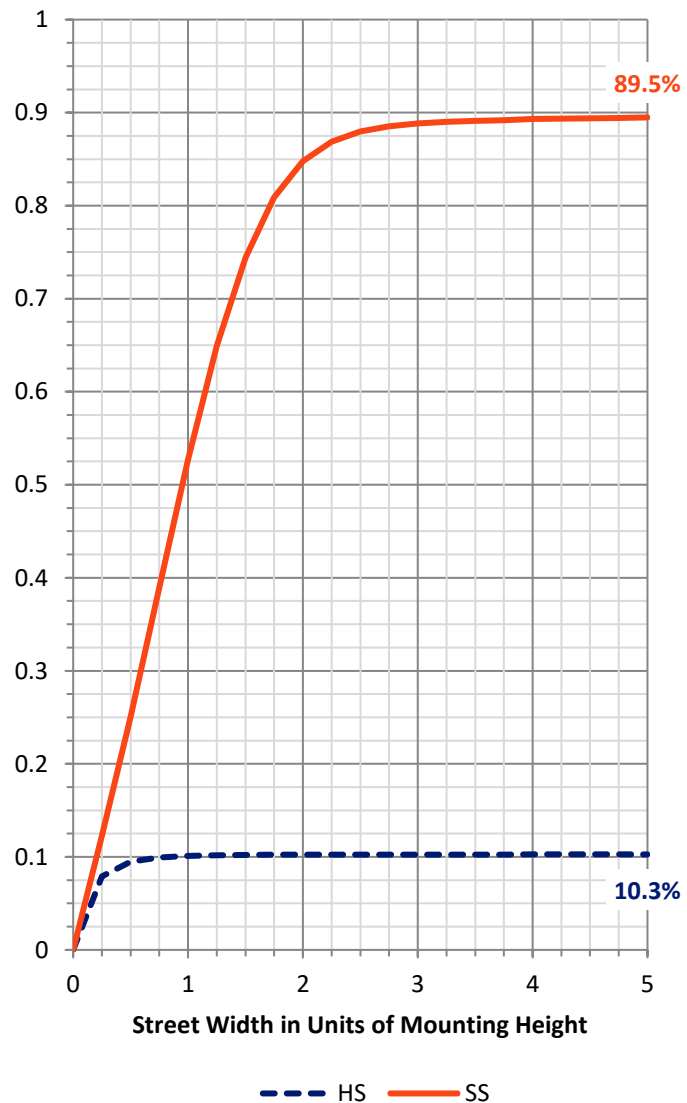
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	452.3	0.0	452.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3915.7	0.0	3915.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	4368.0	0.0	4368.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.0
10°-20°	124.7	2.9
20°-30°	216.4	5.0
30°-40°	397.6	9.1
40°-50°	748.6	17.1
50°-60°	1280.4	29.3
60°-70°	1225.9	28.1
70°-80°	312.6	7.2
80°-90°	16.0	0.4
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°	4368.0	100.0
0°-180°	4368.0	100.0



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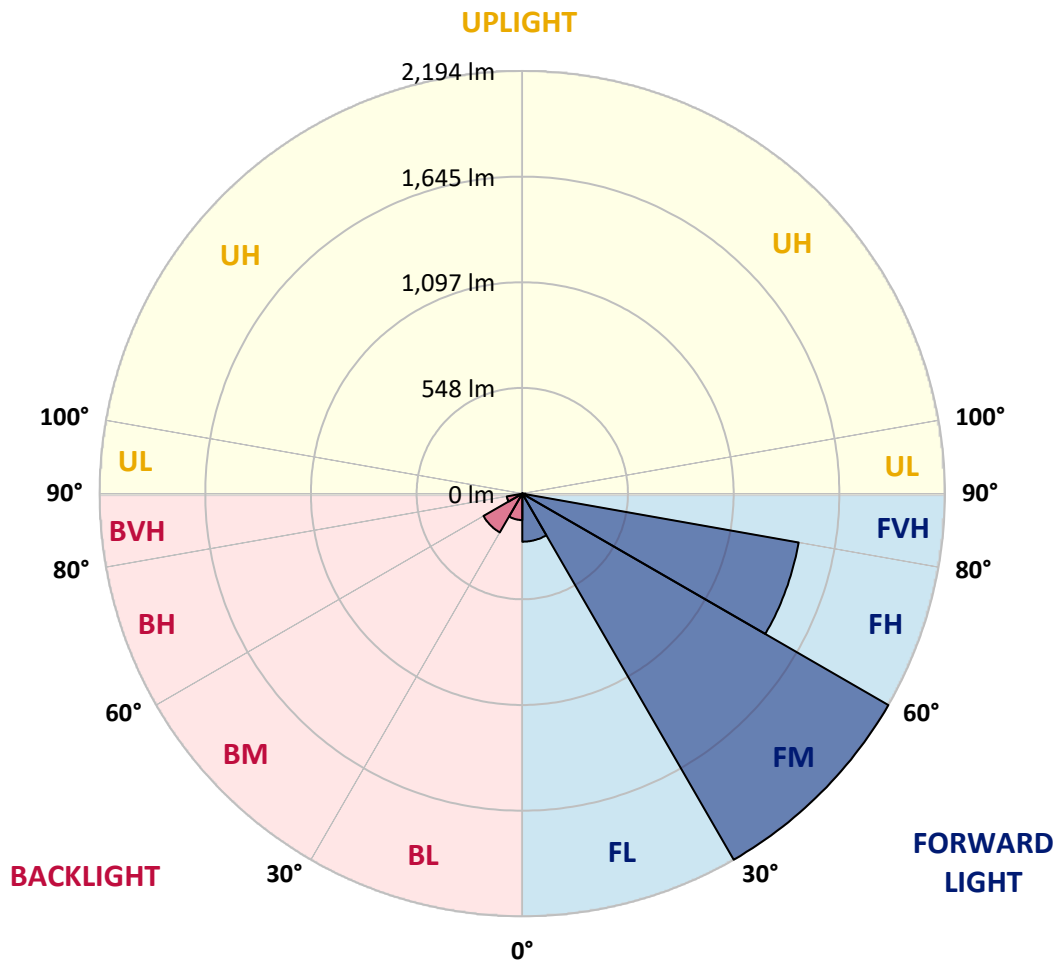
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.7	5.7			
FM (30°-60°)	2194.0	50.2			
FH (60°-80°)	1456.7	33.3			G1/1800
FVH (80°-90°)	15.4	0.4			G1/100
BL (0°-30°)	137.2	3.1	B1/500		
BM (30°-60°)	232.6	5.3	B1/1000		
BH (60°-80°)	81.9	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0
2.5°	476.8	478.5	480.1	480.8	483.1	485.4	487.0	486.7	489.3	490.7	490.7
5°	457.8	457.8	462.0	466.0	472.6	479.1	485.4	486.7	491.6	496.2	497.9
7.5°	441.7	442.6	445.9	453.2	462.0	473.6	486.1	489.0	497.6	507.8	512.0
10°	434.1	434.8	439.0	446.6	457.8	473.6	491.0	496.6	509.7	525.8	531.8
12.5°	432.5	433.4	437.7	446.3	459.1	478.2	501.8	507.8	526.8	547.6	556.4
15°	435.4	436.1	440.3	449.6	463.7	486.4	516.3	524.5	547.2	571.2	582.7
17.5°	445.9	445.3	448.2	455.8	471.6	496.6	533.7	543.6	570.2	603.1	610.7
20°	490.7	486.4	483.8	477.2	483.4	511.0	554.8	569.3	602.1	635.7	640.9
22.5°	587.0	577.5	558.7	533.1	513.4	530.8	580.1	596.9	639.3	672.2	672.2
25°	709.7	697.5	678.8	622.9	574.5	563.3	608.7	629.8	679.8	713.0	702.1
27.5°	863.3	853.7	817.2	752.1	678.1	620.2	641.9	661.3	715.6	755.7	733.0
30°	988.2	983.6	953.7	895.5	813.9	729.4	703.8	716.6	763.3	809.7	786.3
32.5°	1093.8	1093.8	1063.2	1008.9	932.6	857.7	808.7	817.9	862.6	916.2	872.8
35°	1209.9	1205.9	1181.3	1129.6	1044.1	978.0	958.0	970.5	1010.9	1050.7	943.8
37.5°	1331.9	1330.6	1304.9	1254.9	1185.2	1102.0	1055.0	1058.3	1079.0	1103.3	1027.0
40°	1464.4	1466.4	1432.8	1401.9	1336.2	1251.0	1160.9	1140.2	1159.6	1228.3	1180.6
42.5°	1620.9	1616.3	1601.9	1559.8	1506.8	1455.9	1347.7	1340.1	1357.2	1430.9	1379.2
45°	1802.8	1809.4	1784.4	1761.0	1725.5	1683.1	1592.7	1579.5	1598.3	1712.7	1639.4
47.5°	1985.0	1978.7	1994.9	1990.6	2009.7	1978.1	1898.2	1871.2	1916.3	2024.8	1916.9
50°	2123.8	2130.7	2164.2	2213.2	2295.1	2312.9	2236.2	2227.0	2247.1	2316.8	2165.2
52.5°	2213.9	2236.9	2289.5	2415.5	2563.1	2677.9	2619.7	2614.8	2606.5	2625.3	2402.6
55°	2272.7	2296.1	2364.8	2550.3	2804.5	2991.0	2993.9	2972.9	2918.6	2905.1	2624.6
57.5°	2236.6	2241.2	2339.2	2587.1	2938.4	3214.3	3311.0	3289.9	3189.6	3138.6	2820.6
60°	2010.3	2019.9	2156.3	2447.7	2880.2	3287.3	3521.1	3511.6	3401.7	3344.2	2973.2
62.5°	1609.4	1637.1	1777.5	2102.4	2609.5	3164.3	3606.3	3633.2	3547.7	3468.5	3021.2
63°	1535.8	1526.9	1675.2	2001.8	2537.8	3103.4	3607.6	3641.8	3554.3	3480.3	3008.1
65°	1136.9	1163.5	1259.9	1578.5	2111.9	2820.3	3526.4	3586.9	3530.0	3428.0	2862.4
67.5°	638.3	637.0	743.6	1032.9	1478.2	2212.2	3188.6	3316.6	3304.7	3076.2	2372.7
70°	312.4	317.3	361.1	535.4	857.3	1526.2	2649.6	2787.7	2792.0	2416.1	1640.7
72.5°	141.4	143.7	175.0	260.8	440.7	812.6	1825.8	1957.7	1933.4	1539.7	906.0
75°	74.7	79.6	96.4	131.2	212.4	335.1	993.2	1120.8	1069.8	703.4	333.5
77.5°	55.2	56.9	65.4	83.5	113.8	130.6	428.5	509.7	477.5	254.5	110.5
80°	40.4	41.8	48.7	59.2	71.7	66.4	161.5	185.1	166.1	86.5	33.9
82.5°	24.7	25.0	35.5	44.1	45.1	37.2	53.3	57.2	59.9	48.7	18.4
85°	8.9	11.2	24.0	31.9	26.6	18.7	22.4	24.7	27.0	30.9	10.9
87.5°	1.0	1.3	11.5	15.5	7.6	6.9	8.2	9.2	9.9	11.5	5.3
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°	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0
2.5°	492.0	493.3	492.3	490.7	490.3	489.3	487.4	487.4	487.4	488.0	487.4
5°	499.2	500.2	497.9	494.6	491.0	486.4	481.5	478.5	478.2	477.5	475.9
7.5°	513.0	514.3	509.1	501.2	491.3	480.1	469.6	459.7	455.1	451.5	451.5
10°	533.1	534.4	523.9	509.7	490.0	467.3	442.3	419.6	401.9	393.6	391.7
12.5°	557.1	557.7	540.3	515.7	483.1	439.4	386.1	336.4	301.9	286.1	284.5
15°	583.4	578.8	555.8	518.0	463.4	381.8	289.7	228.9	193.0	182.5	186.5
17.5°	610.0	601.5	567.6	514.3	419.0	289.7	194.7	156.2	145.0	142.1	142.1
20°	635.0	623.2	576.2	498.6	342.0	199.6	144.4	135.2	133.2	131.2	131.5
22.5°	660.0	641.9	583.7	463.4	254.9	142.7	129.2	126.3	123.7	121.0	120.7
25°	684.4	659.4	586.7	398.2	173.6	122.7	118.1	114.1	108.9	105.9	105.2
27.5°	709.7	680.4	584.7	316.0	126.6	109.8	105.2	99.6	93.4	88.1	88.1
30°	758.4	720.5	577.8	227.2	106.6	96.7	90.8	81.9	75.0	69.7	69.4
32.5°	824.8	772.8	554.1	159.8	94.7	85.2	76.3	66.4	59.2	55.2	55.2
35°	884.0	825.4	509.7	117.7	85.2	74.0	63.1	53.6	48.0	45.4	44.4
37.5°	974.1	902.4	448.6	95.7	76.0	64.1	52.9	44.1	39.5	37.5	37.5
40°	1109.2	996.4	373.6	83.9	67.1	54.6	44.1	37.2	33.5	31.2	31.2
42.5°	1277.0	1111.5	297.6	75.3	58.9	47.0	36.8	31.6	28.3	26.6	26.3
45°	1488.1	1232.9	229.2	67.4	52.3	40.1	31.2	26.6	23.3	22.4	22.7
47.5°	1708.4	1339.8	177.6	60.5	45.4	33.9	26.6	23.0	20.7	19.4	19.4
50°	1896.5	1413.4	134.8	52.6	40.1	28.6	23.3	20.7	18.7	18.1	17.8
52.5°	2053.7	1434.8	103.3	45.7	35.2	24.7	20.7	18.7	17.1	16.1	16.1
55°	2187.6	1416.1	80.9	38.5	29.6	21.4	18.4	16.8	14.8	13.8	13.5
57.5°	2265.8	1355.9	61.8	31.9	24.0	17.8	16.1	14.1	11.8	10.2	10.2
60°	2305.3	1268.4	47.4	26.3	18.4	14.1	13.2	10.5	8.2	6.9	6.6
62.5°	2258.0	1152.3	35.8	20.7	13.8	10.5	8.9	7.6	5.3	3.9	3.9
63°	2228.7	1118.8	34.5	19.7	12.8	9.9	8.2	6.9	4.6	3.6	3.3
65°	2031.7	972.4	28.3	15.8	10.2	6.9	5.6	4.9	3.3	1.6	1.3
67.5°	1613.4	743.9	22.4	11.8	7.2	4.9	3.3	3.0	1.0	0.0	0.0
70°	1090.8	480.5	17.4	8.6	4.9	3.0	1.6	1.3	0.3	0.0	0.0
72.5°	568.9	246.3	13.5	6.2	3.0	2.0	1.0	0.3	0.0	0.0	0.0
75°	201.3	83.9	9.9	3.9	2.0	1.0	0.3	0.0	0.0	0.0	0.0
77.5°	60.8	31.2	6.2	3.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
80°	21.4	11.5	3.6	2.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	5.6	2.3	1.6	1.0	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.9	3.6	2.0	1.6	1.0	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.6	2.0	1.6	1.3	0.7	0.3	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)