

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: P646748

Luminaire Tested: **GALN-SA1C-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646748
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-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 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: 4089.6 lumens
Efficiency: N/A
Efficacy: 71.7 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

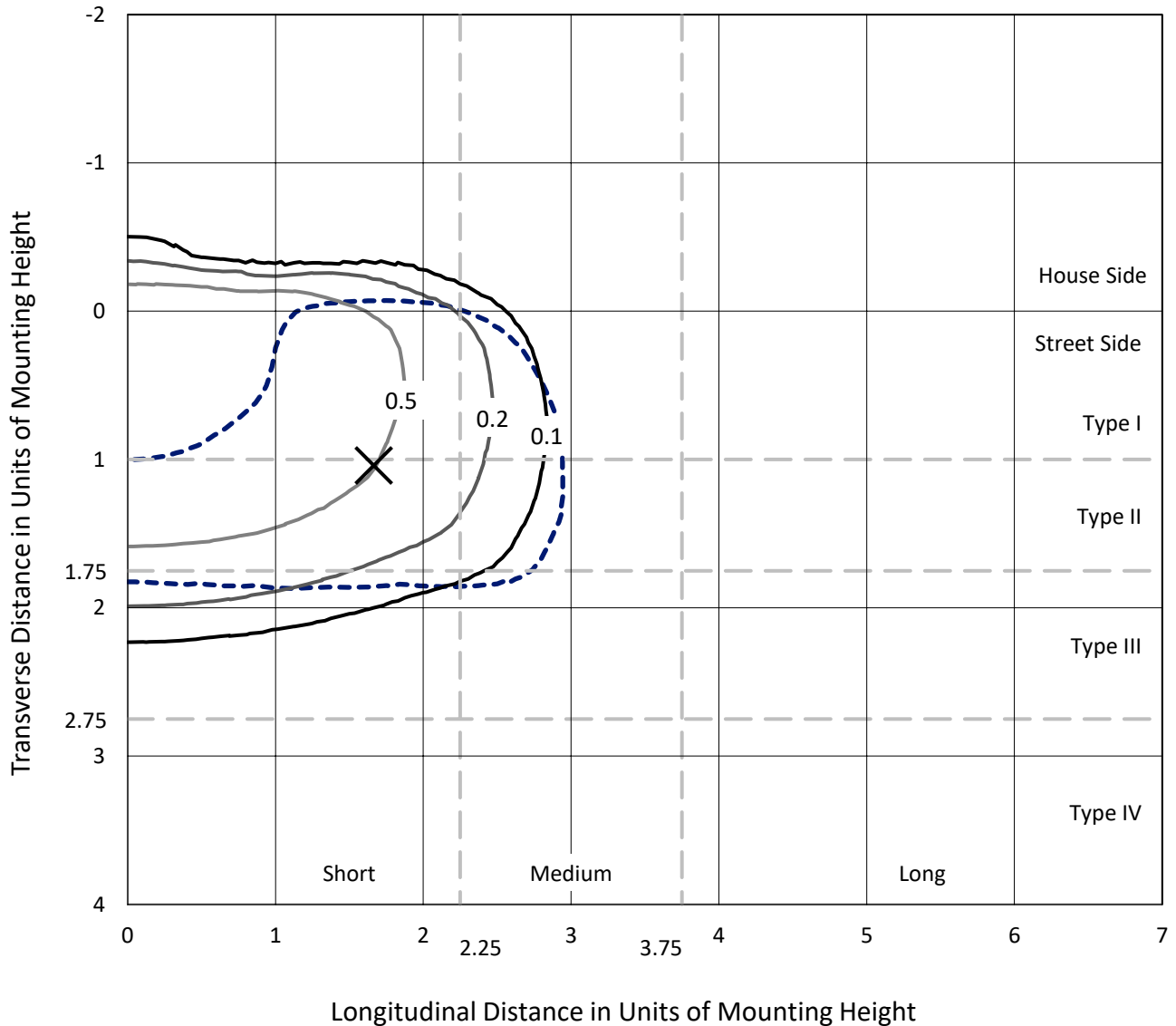
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

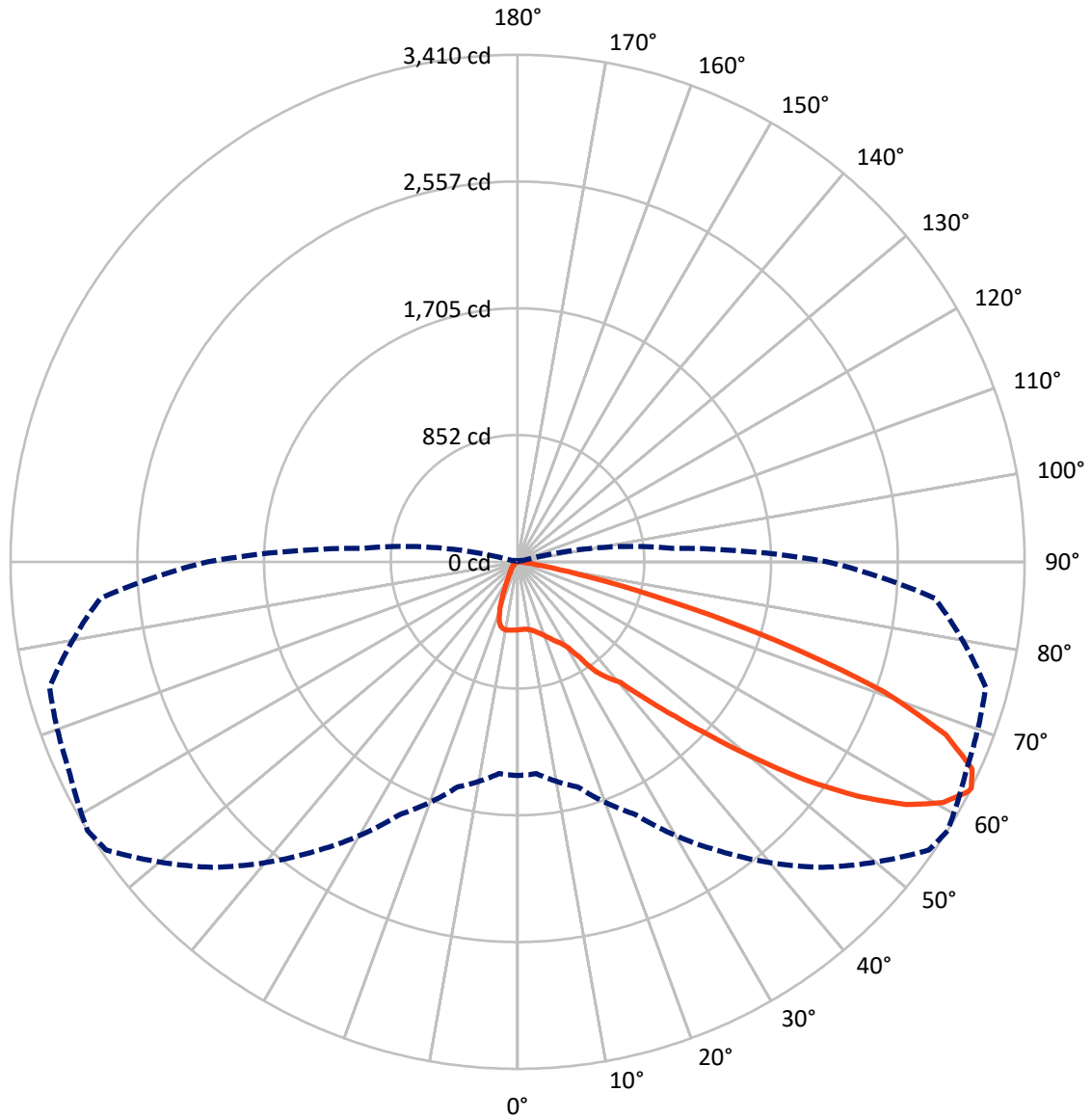
× Max cd
 - - - 1/2 Max cd



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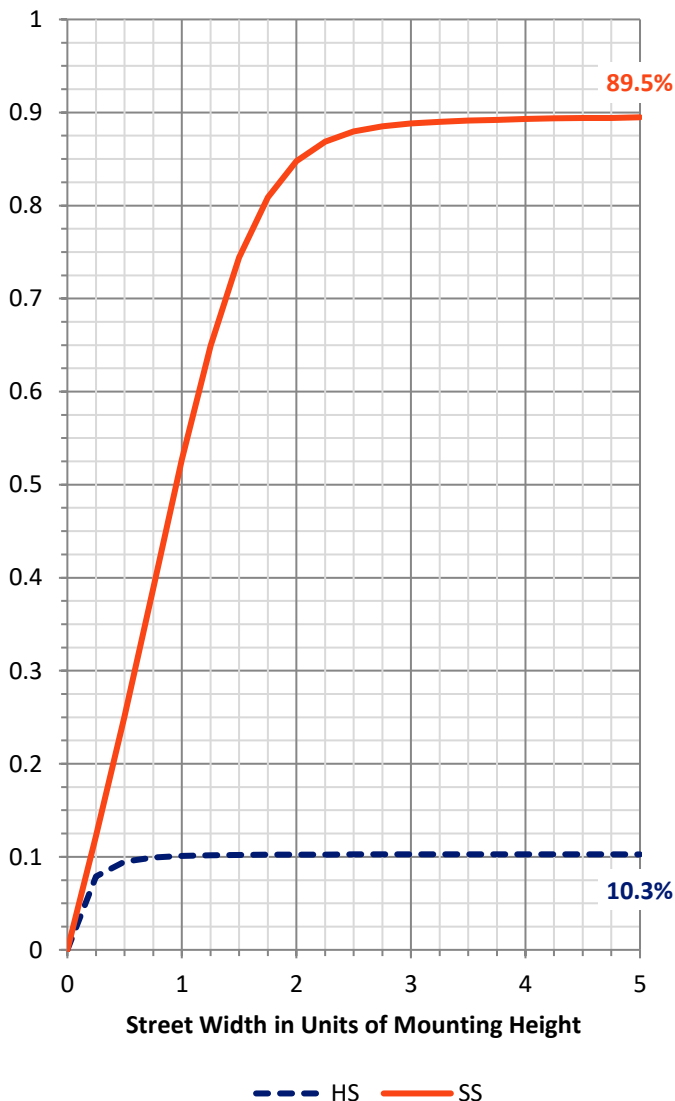
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	423.5	0.0	423.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3666.2	0.0	3666.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	4089.6	0.0	4089.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.0
10°-20°	116.7	2.9
20°-30°	202.6	5.0
30°-40°	372.3	9.1
40°-50°	700.9	17.1
50°-60°	1198.8	29.3
60°-70°	1147.8	28.1
70°-80°	292.7	7.2
80°-90°	15.0	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°	4089.6	100.0
0°-180°	4089.6	100.0

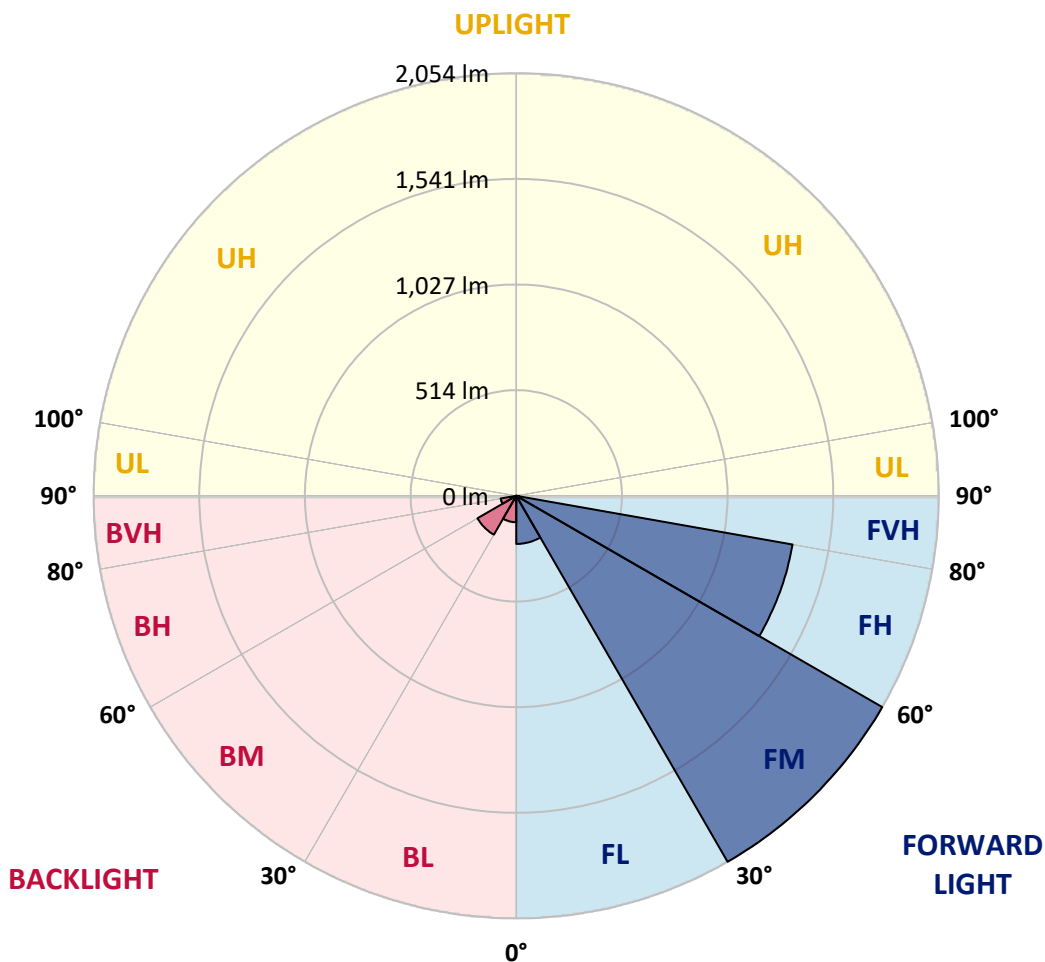


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	233.8	5.7			
FM (30°-60°)	2054.1	50.2			
FH (60°-80°)	1363.9	33.3			G1/1800
FVH (80°-90°)	14.4	0.4			G1/100
BL (0°-30°)	128.4	3.1	B1/500		
BM (30°-60°)	217.8	5.3	B0/220		
BH (60°-80°)	76.7	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°	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8
2.5°	446.5	448.0	449.5	450.1	452.3	454.5	456.0	455.7	458.1	459.4	459.4
5°	428.6	428.6	432.6	436.3	442.5	448.6	454.5	455.7	460.3	464.6	466.2
7.5°	413.5	414.4	417.5	424.3	432.6	443.4	455.1	457.8	465.9	475.4	479.4
10°	406.5	407.1	411.1	418.1	428.6	443.4	459.7	464.9	477.2	492.4	497.9
12.5°	404.9	405.8	409.8	417.8	429.9	447.7	469.9	475.4	493.3	512.6	520.9
15°	407.6	408.3	412.2	420.9	434.2	455.4	483.4	491.1	512.3	534.8	545.6
17.5°	417.5	416.9	419.7	426.7	441.5	464.9	499.7	509.0	533.9	564.7	571.7
20°	459.4	455.4	452.9	446.8	452.7	478.5	519.4	533.0	563.8	595.2	600.1
22.5°	549.6	540.7	523.1	499.1	480.6	497.0	543.2	558.8	598.5	629.4	629.4
25°	664.5	653.0	635.5	583.2	537.9	527.4	569.9	589.6	636.4	667.5	657.3
27.5°	808.2	799.3	765.1	704.2	634.9	580.7	601.0	619.2	670.0	707.5	686.3
30°	925.3	921.0	892.9	838.4	762.0	682.9	658.9	671.0	714.6	758.0	736.2
32.5°	1024.1	1024.1	995.4	944.6	873.2	803.0	757.2	765.8	807.6	857.8	817.1
35°	1132.8	1129.1	1106.0	1057.6	977.6	915.7	896.9	908.6	946.5	983.8	883.7
37.5°	1247.0	1245.8	1221.7	1175.0	1109.7	1031.8	987.8	990.8	1010.2	1033.0	961.6
40°	1371.1	1372.9	1341.5	1312.5	1251.0	1171.3	1086.9	1067.5	1085.6	1150.0	1105.4
42.5°	1517.6	1513.3	1499.8	1460.4	1410.8	1363.0	1261.8	1254.7	1270.7	1339.6	1291.3
45°	1687.9	1694.1	1670.7	1648.8	1615.6	1575.9	1491.1	1478.9	1496.4	1603.5	1534.9
47.5°	1858.5	1852.7	1867.7	1863.7	1881.5	1852.0	1777.2	1752.0	1794.2	1895.7	1794.7
50°	1988.4	1994.8	2026.3	2072.1	2148.9	2165.5	2093.7	2085.1	2103.8	2169.1	2027.2
52.5°	2072.8	2094.4	2143.6	2261.5	2399.7	2507.2	2452.7	2448.1	2440.5	2458.0	2249.5
55°	2127.9	2149.7	2214.1	2387.8	2625.8	2800.3	2803.1	2783.4	2732.6	2720.0	2457.4
57.5°	2094.1	2098.4	2190.1	2422.3	2751.1	3009.4	3100.0	3080.2	2986.4	2938.6	2640.8
60°	1882.2	1891.1	2018.9	2291.7	2696.6	3077.7	3296.7	3287.7	3184.9	3131.1	2783.7
62.5°	1506.9	1532.7	1664.2	1968.4	2443.2	2962.6	3376.5	3401.7	3321.6	3247.4	2828.7
63°	1437.9	1429.6	1568.4	1874.2	2376.1	2905.6	3377.6	3409.7	3327.8	3258.5	2816.4
65°	1064.4	1089.4	1179.6	1477.9	1977.3	2640.6	3301.6	3358.3	3305.0	3209.5	2680.0
67.5°	597.7	596.4	696.2	967.1	1384.0	2071.3	2985.4	3105.1	3094.1	2880.1	2221.5
70°	292.5	297.1	338.1	501.3	802.7	1429.0	2480.8	2610.1	2614.0	2262.2	1536.1
72.5°	132.4	134.5	163.8	244.1	412.6	760.8	1709.4	1832.9	1810.1	1441.6	848.3
75°	69.9	74.5	90.2	122.9	198.9	313.7	929.9	1049.3	1001.6	658.6	312.2
77.5°	51.8	53.2	61.3	78.2	106.6	122.2	401.2	477.2	447.1	238.3	103.4
80°	37.9	39.1	45.6	55.4	67.1	62.2	151.2	173.4	155.5	81.0	31.7
82.5°	23.1	23.4	33.3	41.3	42.2	34.8	49.9	53.6	56.1	45.6	17.2
85°	8.3	10.5	22.5	29.8	25.0	17.5	20.9	23.1	25.2	29.0	10.2
87.5°	0.9	1.3	10.8	14.5	7.0	6.5	7.7	8.6	9.2	10.8	4.9
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°	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8	457.8
2.5°	460.6	461.8	461.0	459.4	459.1	458.1	456.3	456.3	456.3	457.0	456.3
5°	467.4	468.3	466.2	463.1	459.7	455.4	450.8	448.0	447.7	447.1	445.5
7.5°	480.3	481.5	476.6	469.3	460.0	449.5	439.7	430.4	426.1	422.7	422.7
10°	499.1	500.3	490.5	477.2	458.8	437.5	414.1	392.9	376.2	368.6	366.7
12.5°	521.6	522.2	505.9	482.8	452.3	411.4	361.5	315.0	282.7	267.9	266.3
15°	546.2	541.9	520.4	484.9	433.9	357.4	271.2	214.3	180.7	170.9	174.6
17.5°	571.1	563.1	531.4	481.5	392.3	271.2	182.3	146.3	135.8	133.0	133.0
20°	594.5	583.5	539.4	466.7	320.2	186.9	135.1	126.5	124.7	122.9	123.2
22.5°	617.9	601.0	546.5	433.9	238.7	133.7	121.0	118.2	115.8	113.3	113.0
25°	640.7	617.3	549.3	372.9	162.6	114.9	110.6	106.9	101.9	99.1	98.5
27.5°	664.5	637.0	547.5	295.9	118.5	102.8	98.5	93.3	87.5	82.5	82.5
30°	710.0	674.6	541.0	212.7	99.8	90.5	85.0	76.7	70.2	65.3	65.0
32.5°	772.2	723.6	518.8	149.6	88.7	79.7	71.4	62.2	55.4	51.8	51.8
35°	827.6	772.8	477.2	110.2	79.7	69.3	59.1	50.2	44.9	42.5	41.6
37.5°	912.0	844.9	420.0	89.6	71.1	60.1	49.6	41.3	37.0	35.1	35.1
40°	1038.6	932.9	349.8	78.5	62.8	51.1	41.3	34.8	31.4	29.3	29.3
42.5°	1195.6	1040.7	278.7	70.5	55.1	44.0	34.5	29.6	26.5	25.0	24.7
45°	1393.3	1154.3	214.6	63.1	48.9	37.6	29.3	25.0	21.8	20.9	21.2
47.5°	1599.5	1254.4	166.2	56.7	42.5	31.7	25.0	21.5	19.4	18.2	18.2
50°	1775.7	1323.3	126.2	49.3	37.6	26.8	21.8	19.4	17.5	16.9	16.6
52.5°	1922.8	1343.4	96.7	42.8	33.0	23.1	19.4	17.5	16.0	15.1	15.1
55°	2048.2	1325.9	75.7	36.0	27.7	20.0	17.2	15.7	13.9	12.9	12.6
57.5°	2121.5	1269.5	57.9	29.8	22.5	16.6	15.1	13.2	11.1	9.6	9.6
60°	2158.4	1187.6	44.3	24.7	17.2	13.2	12.3	9.9	7.7	6.5	6.2
62.5°	2114.0	1078.9	33.6	19.4	12.9	9.9	8.3	7.0	4.9	3.7	3.7
63°	2086.6	1047.5	32.3	18.5	12.0	9.2	7.7	6.5	4.3	3.4	3.1
65°	1902.2	910.5	26.5	14.8	9.6	6.5	5.2	4.6	3.1	1.6	1.3
67.5°	1510.6	696.5	20.9	11.1	6.8	4.6	3.1	2.7	0.9	0.0	0.0
70°	1021.3	449.8	16.3	8.0	4.6	2.7	1.6	1.3	0.3	0.0	0.0
72.5°	532.7	230.6	12.6	5.9	2.7	1.9	0.9	0.3	0.0	0.0	0.0
75°	188.5	78.5	9.2	3.7	1.9	0.9	0.3	0.0	0.0	0.0	0.0
77.5°	56.9	29.3	5.9	2.7	1.3	0.6	0.0	0.0	0.0	0.0	0.0
80°	20.0	10.8	3.4	1.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.9	5.2	2.2	1.6	0.9	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.6	3.4	1.9	1.6	0.9	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.4	1.9	1.6	1.3	0.6	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)