

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: P526705

Luminaire Tested: **GALN-SA1C-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3335 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

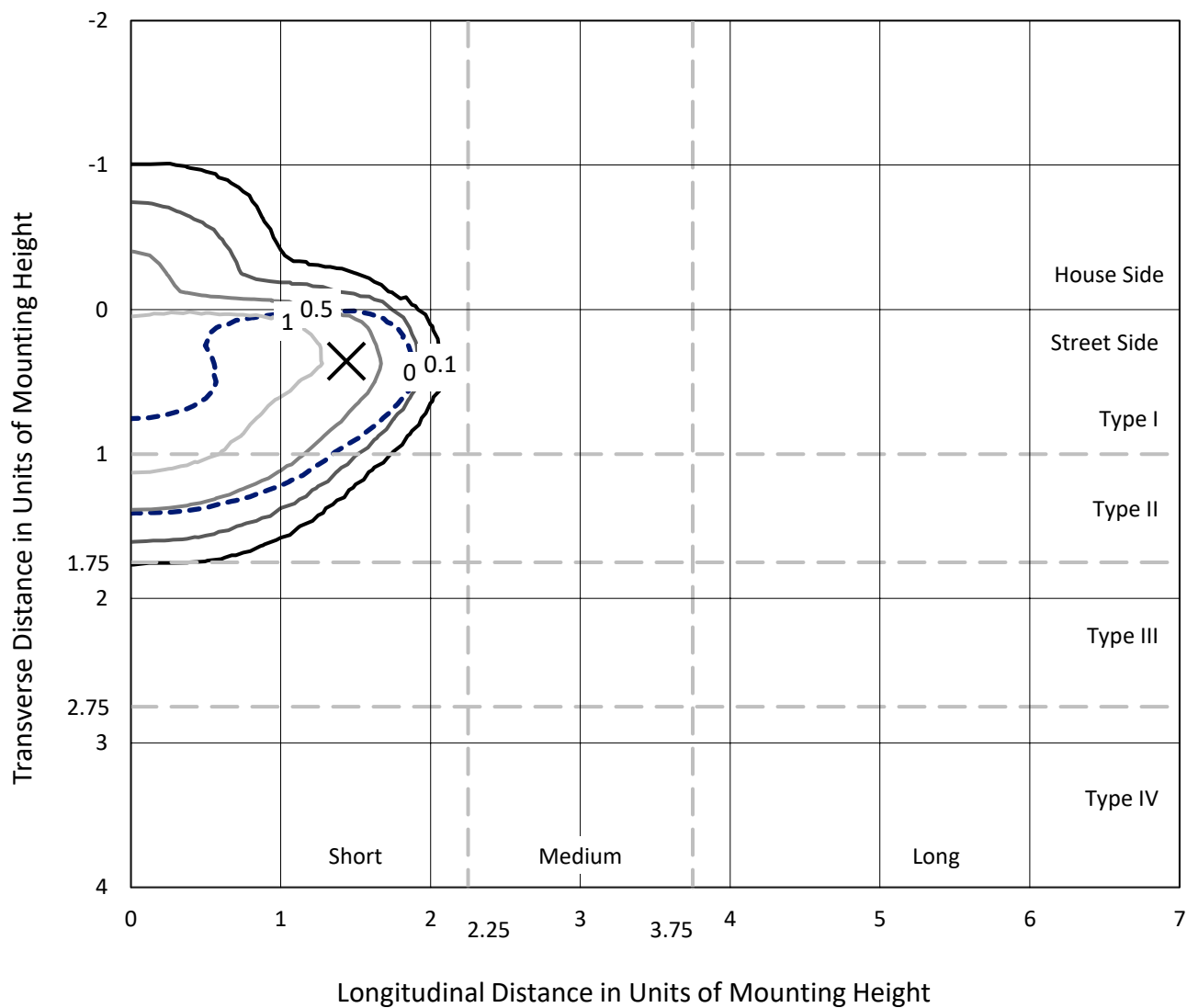
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

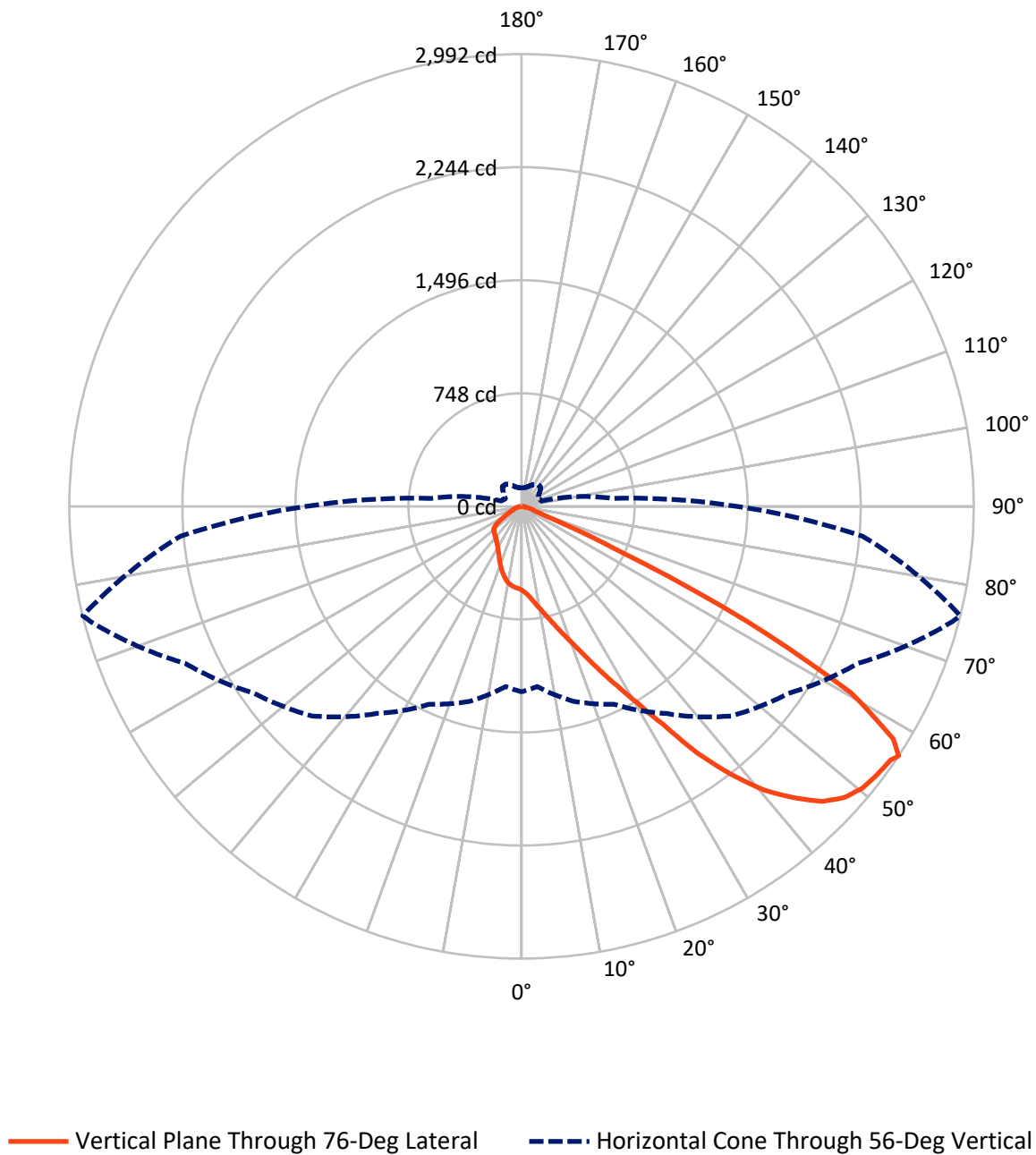
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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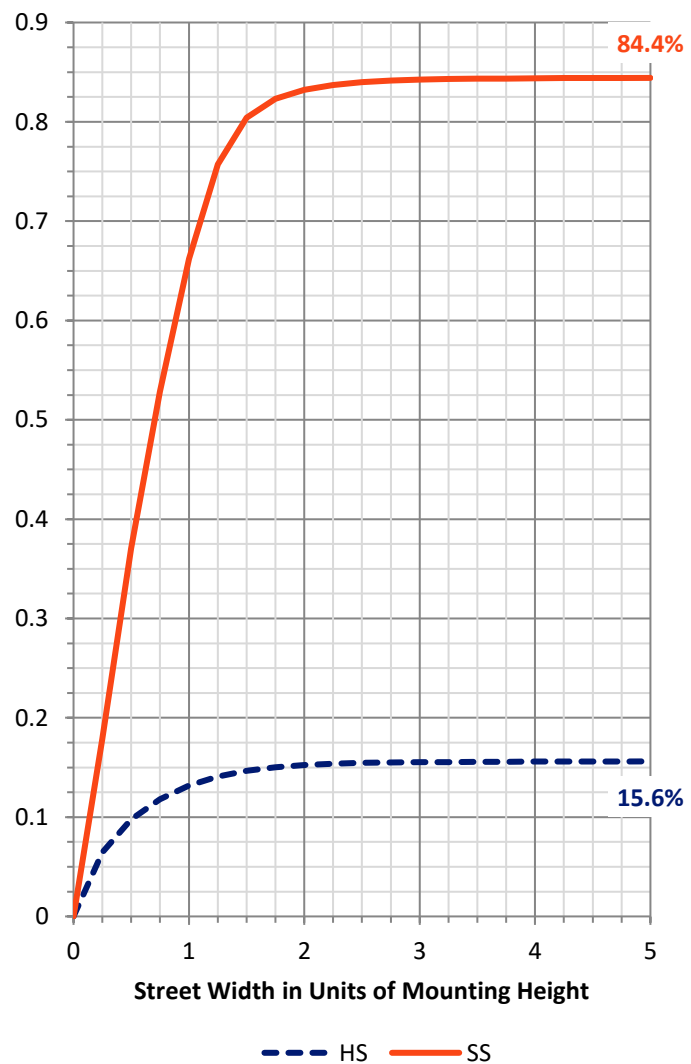
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.9	0.0	523.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2811.1	0.0	2811.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	3335.0	0.0	3335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	1.7
10°-20°	179.7	5.4
20°-30°	325.8	9.8
30°-40°	561.8	16.8
40°-50°	912.6	27.4
50°-60°	961.9	28.8
60°-70°	293.9	8.8
70°-80°	37.7	1.1
80°-90°	5.7	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°	3335.0	100.0
0°-180°	3335.0	100.0

Coefficient of Utilization



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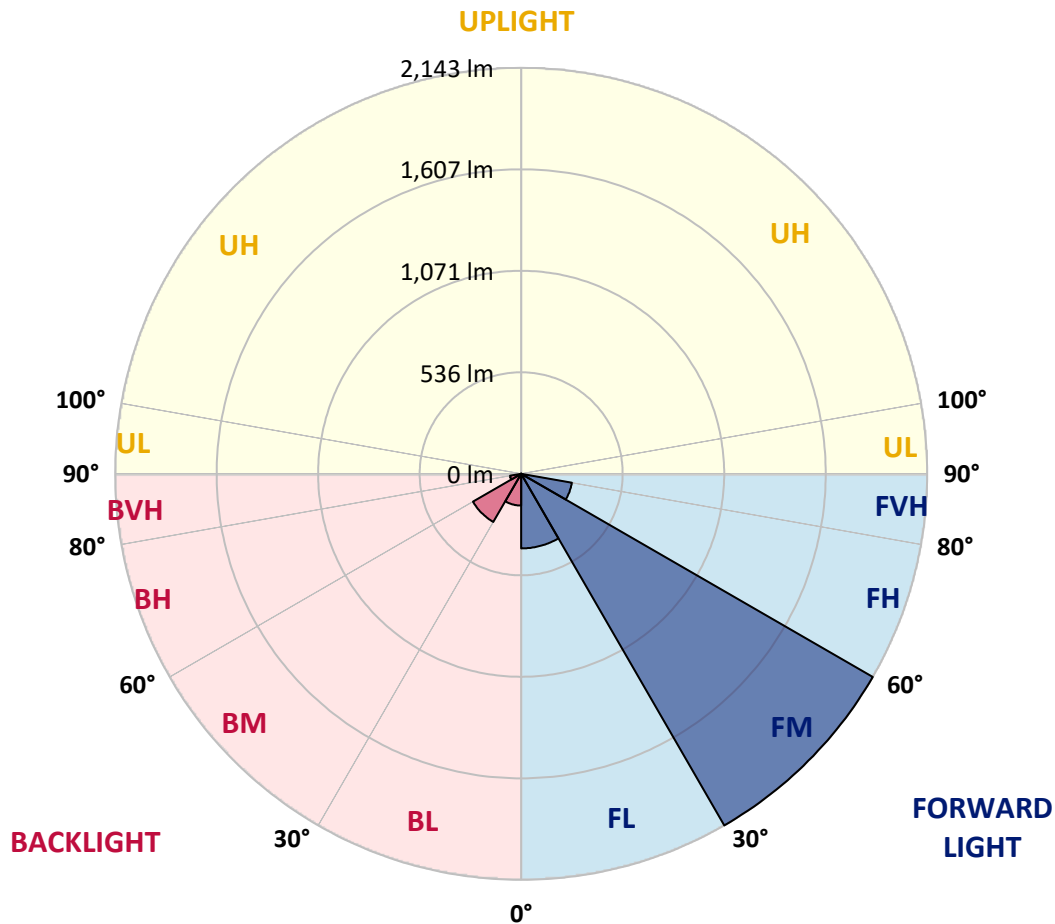
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	393.7	11.8			
FM	(30°-60°)	2142.7	64.3			
FH	(60°-80°)	271.8	8.2			G0/660
FVH	(80°-90°)	2.8	0.1			G0/10
BL	(0°-30°)	167.6	5.0	B1/500		
BM	(30°-60°)	293.6	8.8	B1/1000		
BH	(60°-80°)	59.8	1.8	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1
2.5°	639.3	624.6	625.2	624.0	622.1	615.4	595.1	592.0	578.5	574.8	562.5
5°	716.2	703.3	710.6	699.6	689.1	683.0	649.8	634.4	612.9	604.9	587.7
7.5°	764.1	758.0	755.5	756.1	746.3	730.9	716.2	682.4	653.5	647.3	611.1
10°	787.5	783.8	787.5	785.6	789.9	791.8	766.0	745.7	703.3	692.8	636.3
12.5°	793.0	800.4	803.5	811.5	821.9	839.7	837.9	810.2	753.7	746.9	675.0
15°	806.5	812.7	809.6	822.5	842.2	872.3	888.3	884.0	823.1	810.9	719.9
17.5°	818.8	807.8	818.2	844.0	863.7	909.8	948.6	966.4	898.8	884.6	761.1
20°	835.4	832.4	830.5	843.4	878.5	939.9	1016.8	1049.4	983.6	968.8	820.1
22.5°	885.8	886.5	885.2	866.2	891.4	960.8	1076.4	1157.0	1085.0	1072.7	887.1
25°	952.2	944.3	938.1	922.7	919.7	979.9	1136.7	1288.5	1206.7	1198.1	959.6
27.5°	1022.3	1022.3	1003.9	989.7	970.1	1027.2	1192.0	1416.4	1353.7	1342.0	1022.9
30°	1098.6	1102.9	1100.4	1070.3	1058.0	1078.9	1248.5	1579.9	1522.1	1507.4	1127.4
32.5°	1211.0	1201.8	1212.3	1187.1	1150.8	1169.2	1337.7	1726.2	1741.0	1720.1	1264.5
35°	1359.8	1354.3	1347.5	1306.3	1263.3	1278.1	1463.7	1906.3	2015.8	2005.3	1402.9
37.5°	1493.2	1490.1	1484.6	1456.3	1406.5	1424.4	1606.9	2093.8	2283.8	2249.4	1598.3
40°	1633.4	1650.0	1632.2	1606.9	1561.5	1600.8	1775.4	2205.1	2509.4	2467.6	1747.7
42.5°	1823.3	1810.4	1818.4	1772.3	1747.7	1790.8	1944.4	2316.4	2684.6	2634.8	1906.3
45°	2025.6	2026.2	2004.7	1989.9	1926.0	1972.7	2048.3	2377.8	2824.1	2785.4	2026.2
47.5°	2155.3	2154.7	2178.0	2201.4	2135.6	2089.5	2119.0	2436.2	2896.1	2878.2	2069.9
50°	2135.0	2141.2	2171.3	2258.6	2293.0	2230.9	2185.4	2419.0	2928.7	2926.8	2107.3
52.5°	1857.1	1877.4	1927.8	2053.9	2227.2	2304.1	2254.9	2451.0	2944.6	2947.7	2163.3
55°	1413.9	1425.0	1520.9	1674.0	1865.8	2128.9	2227.2	2476.2	2956.9	2962.5	2230.9
56°	1226.4	1196.9	1335.2	1444.0	1673.3	1961.0	2157.1	2456.5	2949.6	2992.0	2264.7
57.5°	925.8	906.1	1018.0	1153.9	1374.6	1678.3	1939.5	2363.7	2899.8	2899.1	2216.2
60°	563.1	543.4	629.5	709.4	833.0	1033.4	1310.6	1882.4	2451.6	2503.2	1794.4
62.5°	335.0	347.3	432.2	480.7	520.7	541.6	678.1	1118.8	1635.8	1672.7	1113.3
65°	223.2	227.5	291.4	371.3	389.1	309.8	276.0	453.1	709.4	686.7	459.2
67.5°	137.7	147.5	195.5	279.1	309.2	226.2	130.9	169.1	195.5	195.5	132.8
70°	83.6	88.5	130.3	190.0	212.1	145.7	95.3	95.3	94.1	92.2	79.3
72.5°	40.0	43.0	66.4	97.7	99.6	76.8	73.8	80.5	78.7	78.1	65.8
75°	17.2	18.4	23.4	30.7	35.0	32.6	44.9	57.8	59.6	57.8	47.3
77.5°	5.5	6.1	8.6	11.1	11.7	14.1	19.1	24.0	27.7	25.8	23.4
80°	0.6	1.2	2.5	5.5	8.6	11.1	14.1	16.0	17.8	17.8	16.6
82.5°	0.6	0.6	2.5	4.9	8.0	10.5	13.5	15.4	17.8	18.4	17.2
85°	0.0	0.6	1.8	4.3	6.8	6.8	6.1	6.1	4.3	4.3	4.3
87.5°	0.0	0.0	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1
2.5°	560.0	558.8	542.2	531.8	526.2	515.2	508.4	503.5	499.8	495.5	496.1
5°	567.4	563.1	535.4	516.4	493.6	481.3	470.9	462.3	456.8	455.5	453.1
7.5°	588.3	565.6	523.8	489.3	460.4	448.1	438.9	433.4	435.9	430.3	434.6
10°	604.3	570.5	509.6	459.8	430.9	421.7	416.8	421.1	427.2	424.8	421.7
12.5°	624.0	575.4	486.9	431.6	404.5	397.7	406.3	414.3	426.6	431.6	425.4
15°	646.1	580.9	458.0	399.0	381.8	387.3	402.0	416.2	428.5	434.6	438.3
17.5°	673.1	579.1	429.7	373.2	360.2	376.2	394.1	407.0	425.4	434.6	432.2
20°	698.4	572.9	398.4	347.3	347.9	362.7	377.5	398.4	408.2	420.5	416.2
22.5°	722.3	561.9	365.8	329.5	329.5	352.2	359.6	373.2	381.8	387.9	387.3
25°	756.1	541.0	338.7	312.3	319.7	334.4	340.6	344.9	341.2	346.1	346.7
27.5°	780.1	519.5	316.6	296.9	310.4	321.5	319.7	317.2	308.6	301.8	306.1
30°	805.9	494.3	297.5	286.5	293.8	303.7	296.3	288.9	275.4	264.3	265.0
32.5°	842.8	482.6	280.9	274.2	284.0	285.2	277.3	266.2	252.7	242.2	241.6
35°	911.7	475.2	266.8	266.2	268.0	268.6	260.7	247.1	241.6	233.0	236.1
37.5°	980.5	471.5	257.0	254.5	253.9	254.5	245.3	232.4	242.8	242.2	243.4
40°	1068.4	488.1	242.8	239.8	240.4	240.4	228.7	225.0	243.4	245.3	245.9
42.5°	1157.6	509.0	233.6	223.8	226.2	226.2	220.1	215.8	228.7	216.4	214.5
45°	1235.0	539.7	223.8	207.8	213.9	217.0	215.2	207.8	199.8	178.9	178.9
47.5°	1260.2	566.8	212.1	192.4	197.3	210.9	205.3	190.0	175.8	158.6	157.4
50°	1304.5	596.3	202.9	174.6	185.0	201.6	196.1	180.7	164.8	152.5	153.1
52.5°	1350.0	630.1	185.7	153.7	166.6	194.3	194.3	177.0	152.5	143.9	142.6
55°	1418.2	628.9	154.9	126.0	148.8	183.2	186.3	158.6	136.5	129.7	129.7
56°	1428.1	600.6	139.5	118.0	140.8	180.1	180.7	153.7	130.3	122.9	122.9
57.5°	1354.3	542.2	122.3	108.2	130.9	174.6	175.2	149.4	125.4	115.0	113.7
60°	1042.0	367.0	102.0	96.5	118.6	157.4	160.4	135.9	110.0	102.0	101.4
62.5°	588.3	203.5	89.8	87.3	102.0	134.0	143.2	118.6	93.4	89.1	90.4
65°	268.6	111.9	75.6	70.7	82.4	103.3	115.6	97.7	76.8	71.9	71.9
67.5°	98.4	76.2	64.5	55.9	57.8	67.0	75.0	63.3	51.0	43.6	45.5
70°	70.1	63.9	56.6	48.6	44.9	43.6	43.0	35.7	25.2	19.7	20.9
72.5°	56.6	52.9	47.3	41.2	35.0	29.5	25.2	18.4	11.7	8.0	7.4
75°	40.6	38.7	34.4	29.5	24.6	20.9	17.2	11.7	6.1	3.1	3.1
77.5°	20.9	20.9	20.3	18.4	15.4	12.3	9.8	6.8	3.7	1.2	1.2
80°	16.0	17.2	17.8	16.0	14.1	11.1	8.0	4.9	2.5	0.6	0.6
82.5°	15.4	17.8	19.1	16.6	14.1	10.5	8.0	4.9	2.5	0.6	0.6
85°	3.7	3.7	5.5	6.1	8.0	8.6	6.8	4.3	1.8	0.6	0.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	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)