

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: P526471

Luminaire Tested: **GALN-SA1B-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526471
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-SA1B-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 2699 lumens
Efficiency: N/A
Efficacy: 61.3 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

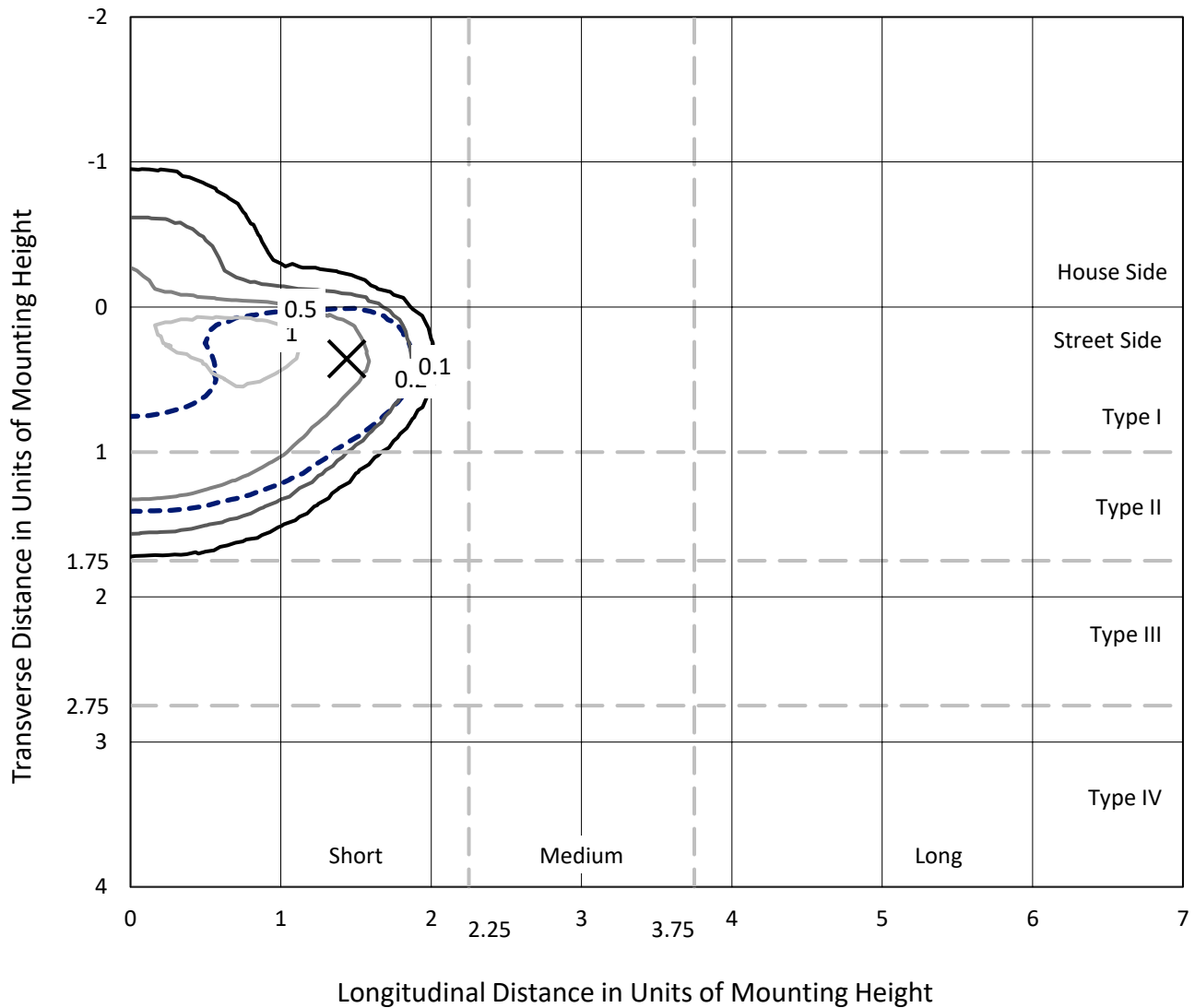
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

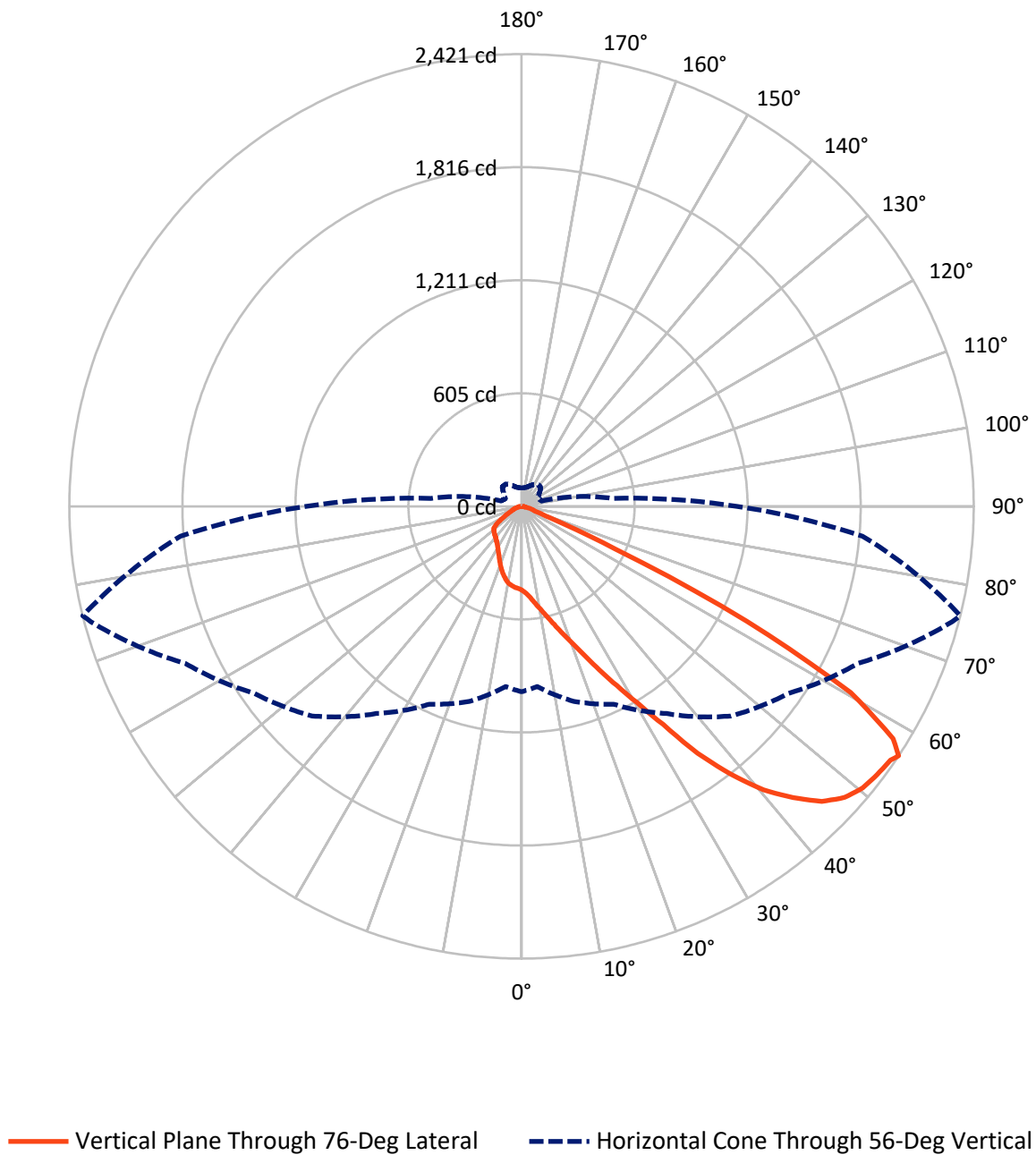
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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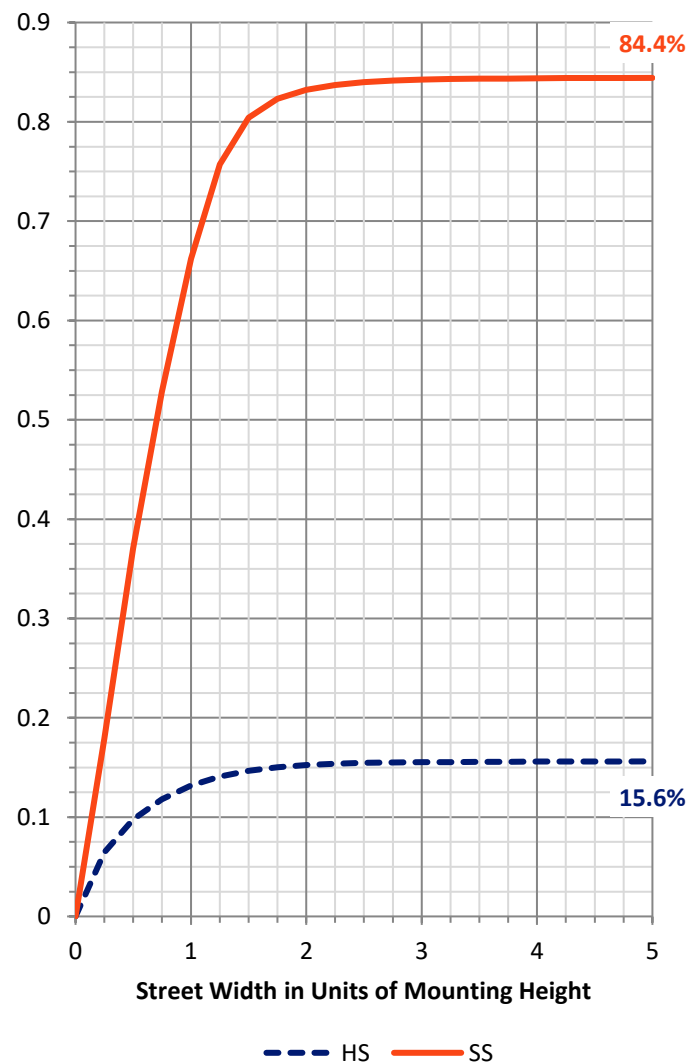
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	424.0	0.0	424.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2275.0	0.0	2275.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	2699.0	0.0	2699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	1.7
10°-20°	145.4	5.4
20°-30°	263.6	9.8
30°-40°	454.6	16.8
40°-50°	738.6	27.4
50°-60°	778.5	28.8
60°-70°	237.9	8.8
70°-80°	30.5	1.1
80°-90°	4.6	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°	2699.0	100.0
0°-180°	2699.0	100.0

Coefficient of Utilization



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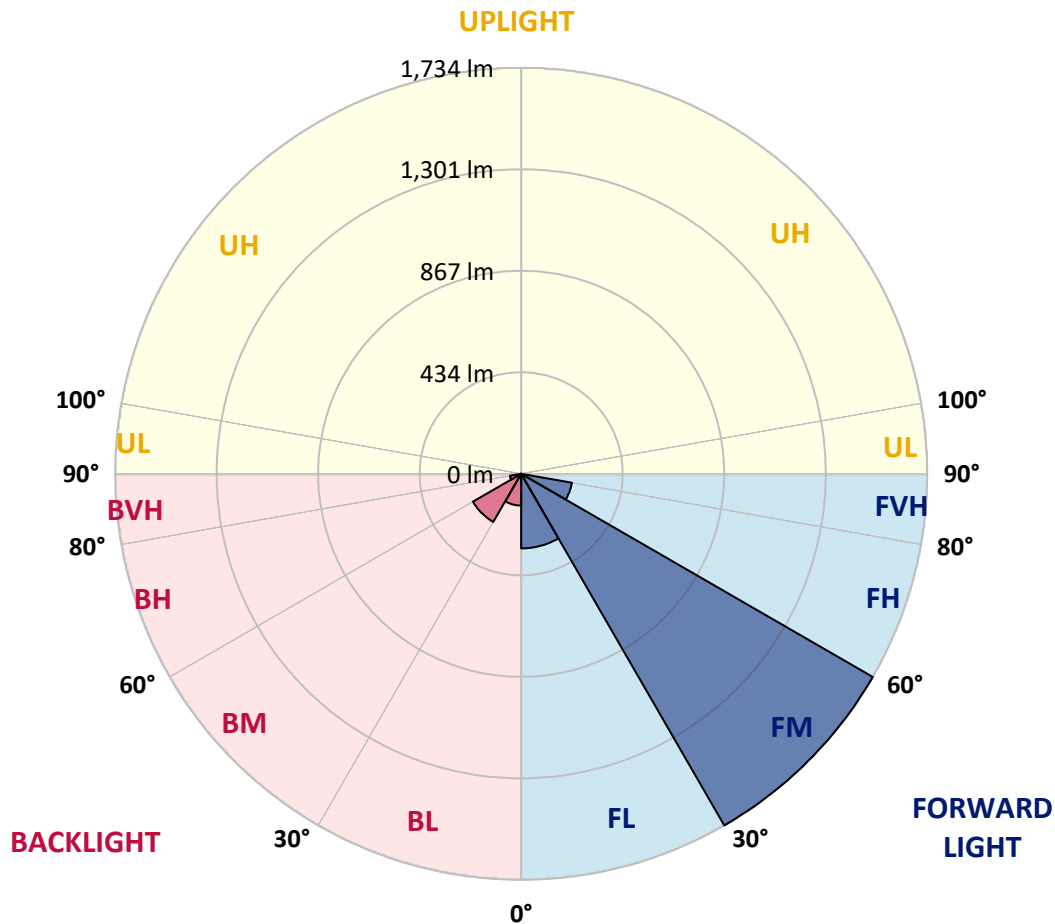
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.6	11.8			
FM	(30°-60°)	1734.1	64.2			
FH	(60°-80°)	220.0	8.2			G0/660
FVH	(80°-90°)	2.3	0.1			G0/10
BL	(0°-30°)	135.6	5.0	B1/500		
BM	(30°-60°)	237.6	8.8	B1/1000		
BH	(60°-80°)	48.4	1.8	B0/110		G0/110
BVH	(80°-90°)	2.4	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°	449.3	449.3	449.3	449.3	449.3	449.3	449.3	449.3	449.3	449.3	449.3
2.5°	517.4	505.5	506.0	505.0	503.5	498.0	481.6	479.1	468.2	465.2	455.2
5°	579.6	569.2	575.1	566.2	557.7	552.7	525.9	513.4	496.0	489.6	475.6
7.5°	618.4	613.4	611.4	611.9	604.0	591.5	579.6	552.2	528.9	523.9	494.5
10°	637.3	634.3	637.3	635.8	639.3	640.8	619.9	603.5	569.2	560.7	514.9
12.5°	641.8	647.8	650.2	656.7	665.2	679.6	678.1	655.7	609.9	604.5	546.3
15°	652.7	657.7	655.2	665.7	681.6	706.0	718.9	715.4	666.2	656.2	582.6
17.5°	662.7	653.7	662.2	683.1	699.0	736.3	767.7	782.1	727.4	715.9	615.9
20°	676.1	673.6	672.1	682.6	710.9	760.7	822.9	849.3	796.0	784.1	663.7
22.5°	716.9	717.4	716.4	701.0	721.4	777.6	871.1	936.3	878.1	868.2	717.9
25°	770.6	764.2	759.2	746.8	744.3	793.0	919.9	1042.8	976.6	969.6	776.6
27.5°	827.4	827.4	812.4	801.0	785.1	831.3	964.7	1146.3	1095.5	1086.1	827.9
30°	889.1	892.5	890.5	866.2	856.2	873.1	1010.4	1278.6	1231.8	1219.9	912.4
32.5°	980.1	972.6	981.1	960.7	931.3	946.3	1082.6	1397.0	1409.0	1392.0	1023.4
35°	1100.5	1096.0	1090.5	1057.2	1022.4	1034.3	1184.6	1542.8	1631.3	1622.9	1135.3
37.5°	1208.5	1206.0	1201.5	1178.6	1138.3	1152.7	1300.5	1694.5	1848.3	1820.4	1293.5
40°	1321.9	1335.3	1320.9	1300.5	1263.7	1295.5	1436.8	1784.6	2030.8	1997.0	1414.4
42.5°	1475.6	1465.2	1471.6	1434.3	1414.4	1449.3	1573.6	1874.6	2172.6	2132.3	1542.8
45°	1639.3	1639.8	1622.4	1610.4	1558.7	1596.5	1657.7	1924.4	2285.6	2254.2	1639.8
47.5°	1744.3	1743.8	1762.7	1781.6	1728.4	1691.0	1714.9	1971.6	2343.8	2329.3	1675.1
50°	1727.9	1732.8	1757.2	1827.9	1855.7	1805.5	1768.7	1957.7	2370.1	2368.7	1705.5
52.5°	1503.0	1519.4	1560.2	1662.2	1802.5	1864.7	1824.9	1983.6	2383.1	2385.6	1750.7
55°	1144.3	1153.2	1230.8	1354.7	1509.9	1722.9	1802.5	2004.0	2393.0	2397.5	1805.5
56°	992.5	968.7	1080.6	1168.7	1354.2	1587.1	1745.8	1988.1	2387.1	2421.4	1832.8
57.5°	749.3	733.3	823.9	933.8	1112.4	1358.2	1569.6	1912.9	2346.8	2346.3	1793.5
60°	455.7	439.8	509.5	574.1	674.1	836.3	1060.7	1523.4	1984.1	2025.9	1452.2
62.5°	271.1	281.1	349.8	389.1	421.4	438.3	548.8	905.5	1323.9	1353.7	901.0
65°	180.6	184.1	235.8	300.5	314.9	250.7	223.4	366.7	574.1	555.7	371.6
67.5°	111.4	119.4	158.2	225.9	250.2	183.1	106.0	136.8	158.2	158.2	107.5
70°	67.7	71.6	105.5	153.7	171.6	117.9	77.1	77.1	76.1	74.6	64.2
72.5°	32.3	34.8	53.7	79.1	80.6	62.2	59.7	65.2	63.7	63.2	53.2
75°	13.9	14.9	18.9	24.9	28.4	26.4	36.3	46.8	48.3	46.8	38.3
77.5°	4.5	5.0	7.0	9.0	9.5	11.4	15.4	19.4	22.4	20.9	18.9
80°	0.5	1.0	2.0	4.5	7.0	9.0	11.4	12.9	14.4	14.4	13.4
82.5°	0.5	0.5	2.0	4.0	6.5	8.5	10.9	12.4	14.4	14.9	13.9
85°	0.0	0.5	1.5	3.5	5.5	5.5	5.0	5.0	3.5	3.5	3.5
87.5°	0.0	0.0	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	449.3	449.3	449.3	449.3	449.3	449.3	449.3	449.3	449.3	449.3	449.3
2.5°	453.2	452.2	438.8	430.3	425.9	416.9	411.4	407.5	404.5	401.0	401.5
5°	459.2	455.7	433.3	417.9	399.5	389.6	381.1	374.1	369.7	368.7	366.7
7.5°	476.1	457.7	423.9	396.0	372.6	362.7	355.2	350.7	352.7	348.3	351.7
10°	489.1	461.7	412.4	372.1	348.8	341.3	337.3	340.8	345.8	343.8	341.3
12.5°	505.0	465.7	394.0	349.3	327.4	321.9	328.9	335.3	345.3	349.3	344.3
15°	522.9	470.1	370.6	322.9	309.0	313.4	325.4	336.8	346.8	351.7	354.7
17.5°	544.8	468.7	347.8	302.0	291.5	304.5	318.9	329.4	344.3	351.7	349.8
20°	565.2	463.7	322.4	281.1	281.6	293.5	305.5	322.4	330.3	340.3	336.8
22.5°	584.6	454.7	296.0	266.7	266.7	285.1	291.0	302.0	309.0	313.9	313.4
25°	611.9	437.8	274.1	252.7	258.7	270.6	275.6	279.1	276.1	280.1	280.6
27.5°	631.3	420.4	256.2	240.3	251.2	260.2	258.7	256.7	249.8	244.3	247.8
30°	652.2	400.0	240.8	231.8	237.8	245.8	239.8	233.8	222.9	213.9	214.4
32.5°	682.1	390.5	227.4	221.9	229.9	230.8	224.4	215.4	204.5	196.0	195.5
35°	737.8	384.6	215.9	215.4	216.9	217.4	210.9	200.0	195.5	188.6	191.0
37.5°	793.5	381.6	208.0	206.0	205.5	206.0	198.5	188.1	196.5	196.0	197.0
40°	864.7	395.0	196.5	194.0	194.5	194.5	185.1	182.1	197.0	198.5	199.0
42.5°	936.8	411.9	189.1	181.1	183.1	183.1	178.1	174.6	185.1	175.1	173.6
45°	999.5	436.8	181.1	168.2	173.1	175.6	174.1	168.2	161.7	144.8	144.8
47.5°	1019.9	458.7	171.6	155.7	159.7	170.6	166.2	153.7	142.3	128.4	127.4
50°	1055.7	482.6	164.2	141.3	149.8	163.2	158.7	146.3	133.3	123.4	123.9
52.5°	1092.5	509.9	150.2	124.4	134.8	157.2	157.2	143.3	123.4	116.4	115.4
55°	1147.8	509.0	125.4	102.0	120.4	148.3	150.7	128.4	110.4	105.0	105.0
56°	1155.7	486.1	112.9	95.5	113.9	145.8	146.3	124.4	105.5	99.5	99.5
57.5°	1096.0	438.8	99.0	87.6	106.0	141.3	141.8	120.9	101.5	93.0	92.0
60°	843.3	297.0	82.6	78.1	96.0	127.4	129.9	109.9	89.1	82.6	82.1
62.5°	476.1	164.7	72.6	70.6	82.6	108.5	115.9	96.0	75.6	72.1	73.1
65°	217.4	90.5	61.2	57.2	66.7	83.6	93.5	79.1	62.2	58.2	58.2
67.5°	79.6	61.7	52.2	45.3	46.8	54.2	60.7	51.2	41.3	35.3	36.8
70°	56.7	51.7	45.8	39.3	36.3	35.3	34.8	28.9	20.4	15.9	16.9
72.5°	45.8	42.8	38.3	33.3	28.4	23.9	20.4	14.9	9.5	6.5	6.0
75°	32.8	31.3	27.9	23.9	19.9	16.9	13.9	9.5	5.0	2.5	2.5
77.5°	16.9	16.9	16.4	14.9	12.4	10.0	8.0	5.5	3.0	1.0	1.0
80°	12.9	13.9	14.4	12.9	11.4	9.0	6.5	4.0	2.0	0.5	0.5
82.5°	12.4	14.4	15.4	13.4	11.4	8.5	6.5	4.0	2.0	0.5	0.5
85°	3.0	3.0	4.5	5.0	6.5	7.0	5.5	3.5	1.5	0.5	0.5
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	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)