

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: P526473

Luminaire Tested: **GALN-SA1B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
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-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3026 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - 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

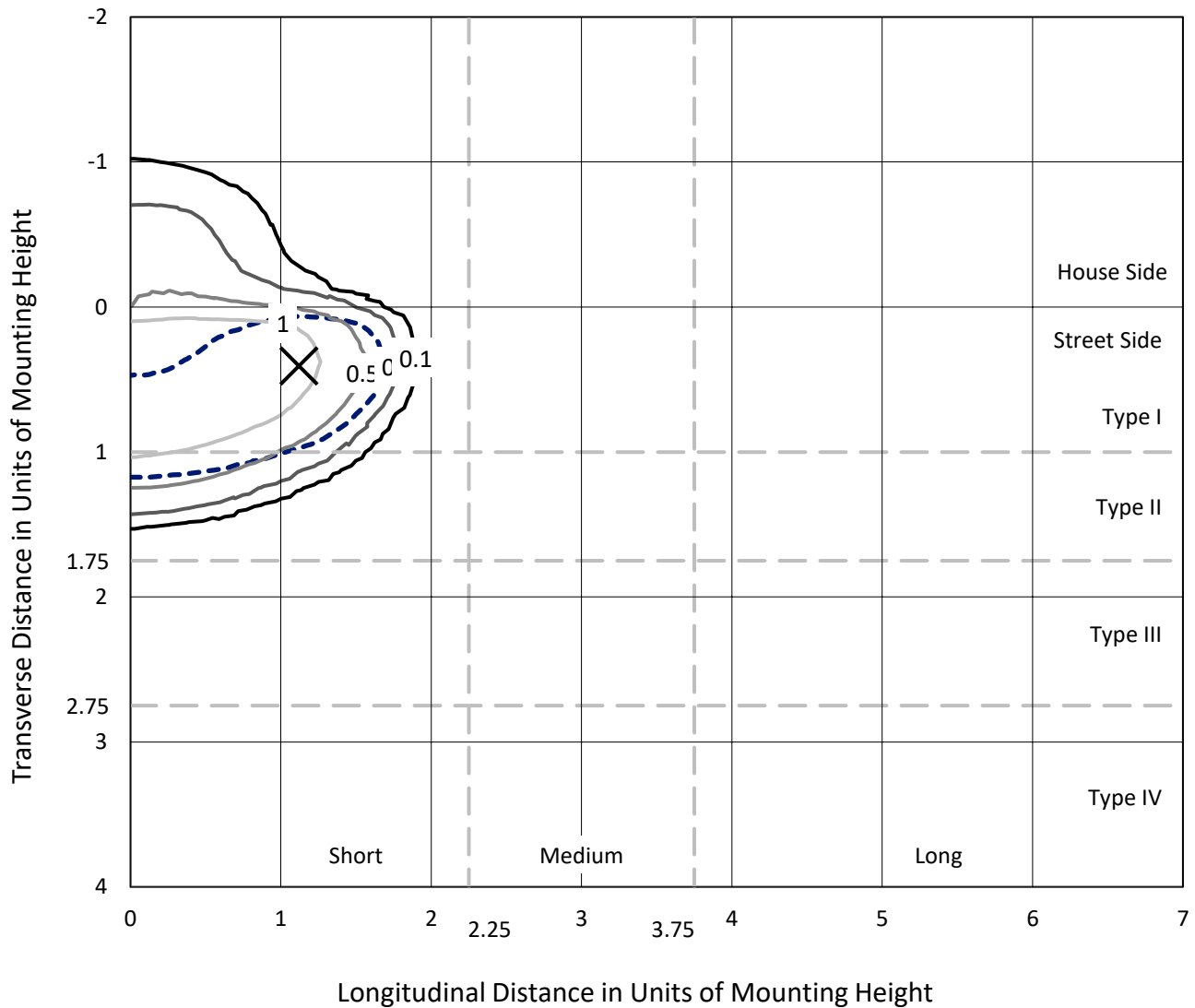


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

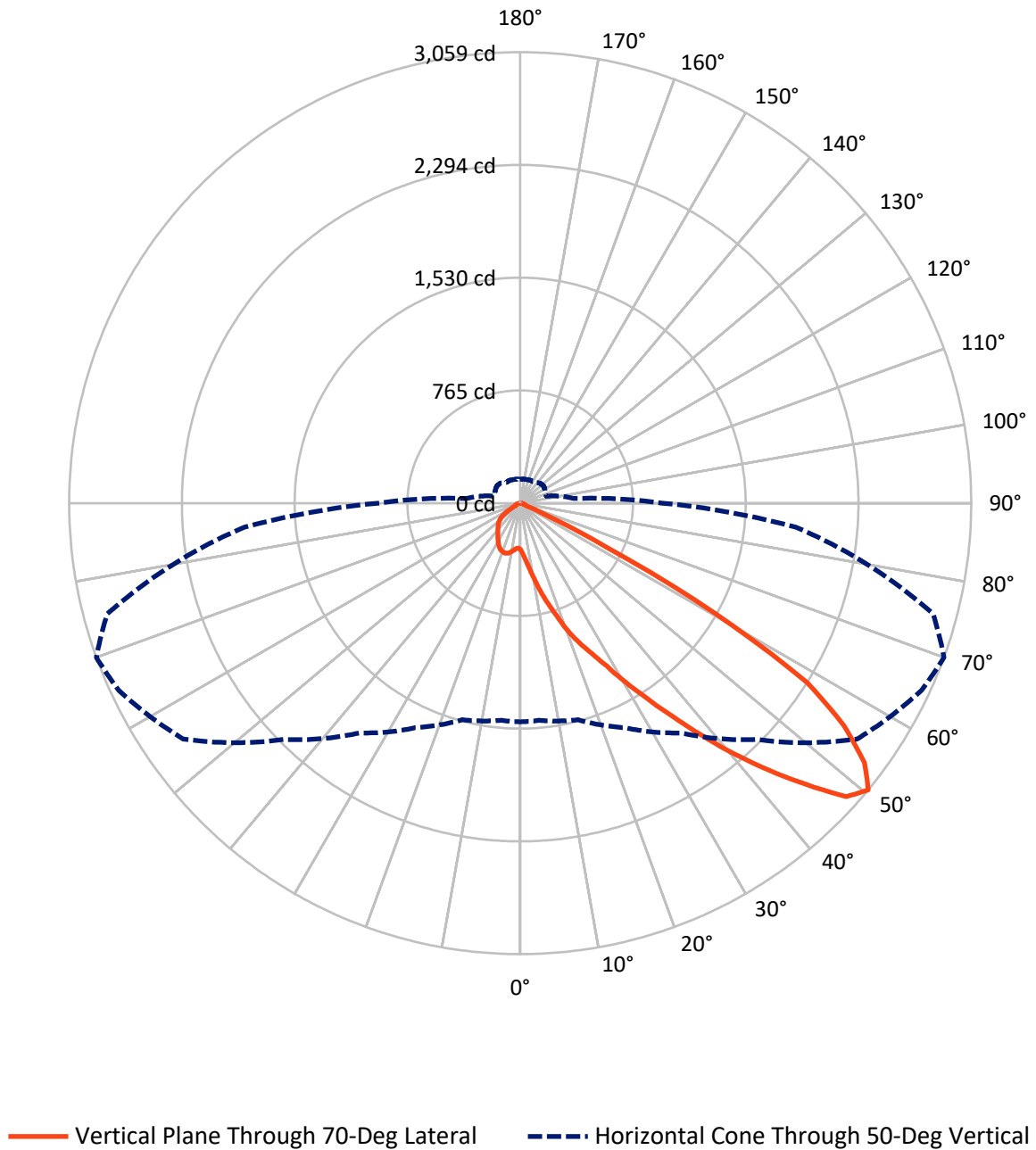


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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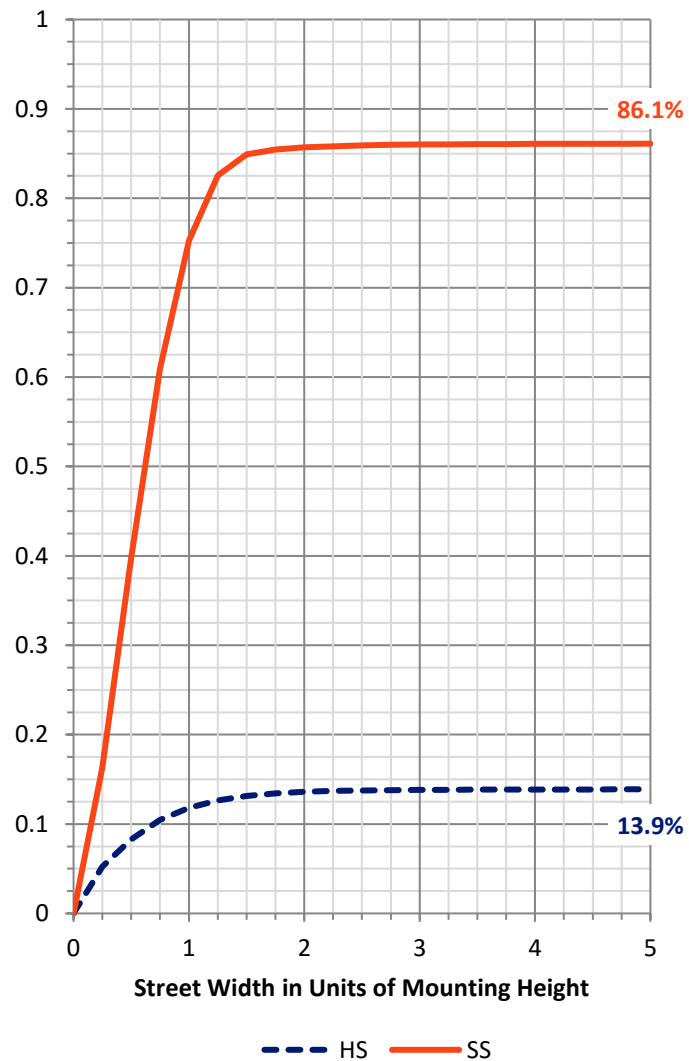
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	422.6	0.0	422.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2603.4	0.0	2603.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	3026.0	0.0	3026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	1.3
10°-20°	176.3	5.8
20°-30°	369.9	12.2
30°-40°	637.5	21.1
40°-50°	931.7	30.8
50°-60°	725.7	24.0
60°-70°	122.9	4.1
70°-80°	16.9	0.6
80°-90°	4.4	0.1
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°	3026.0	100.0
0°-180°	3026.0	100.0

Coefficient of Utilization



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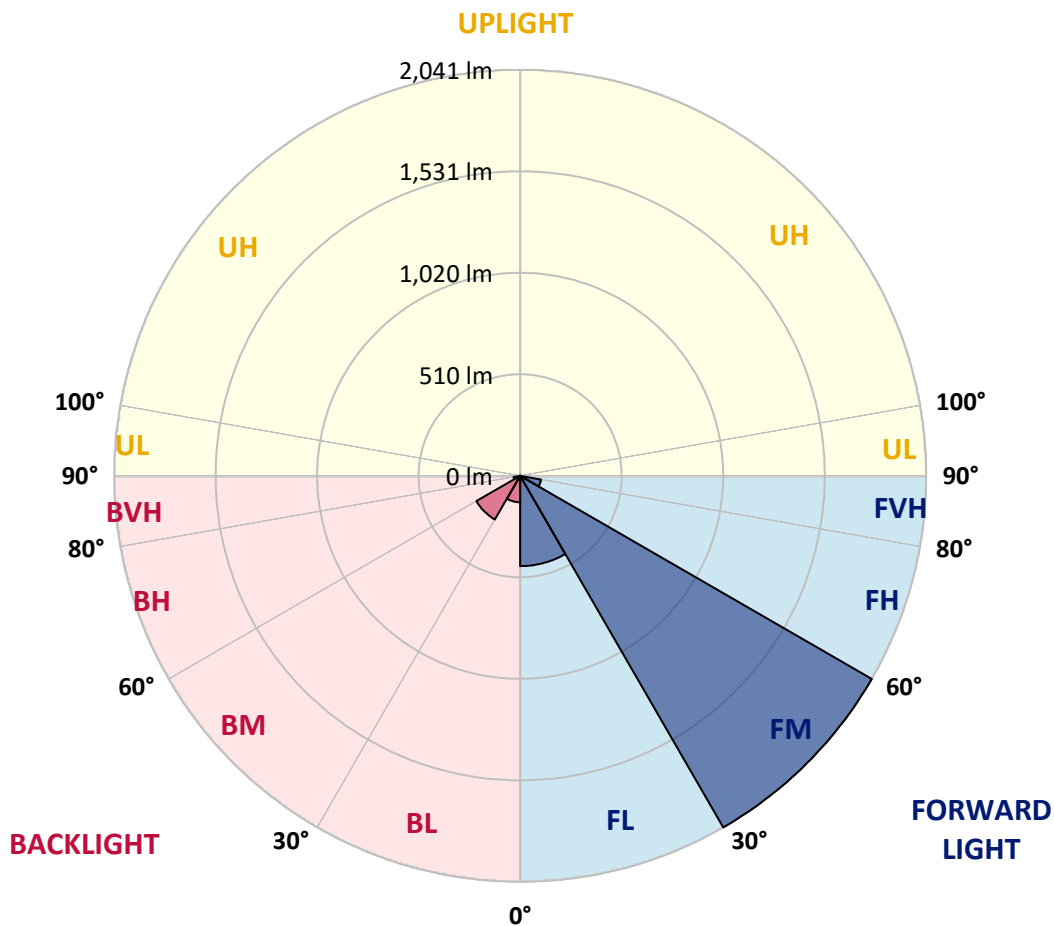
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.9	15.0			
FM	(30°-60°)	2041.0	67.4			
FH	(60°-80°)	106.5	3.5			G0/660
FVH	(80°-90°)	2.0	0.1			G0/10
BL	(0°-30°)	133.0	4.4	B1/500		
BM	(30°-60°)	253.9	8.4	B1/1000		
BH	(60°-80°)	33.4	1.1	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4
2.5°	410.4	407.5	401.0	389.1	384.1	372.1	365.2	351.7	343.3	333.8	323.4
5°	578.1	562.7	553.2	539.8	500.5	476.1	435.8	401.5	385.6	368.2	344.3
7.5°	751.2	741.3	728.4	699.5	672.6	621.9	552.7	477.1	444.8	414.9	367.7
10°	894.5	866.7	865.2	843.8	814.4	753.7	670.6	576.6	518.9	475.1	401.0
12.5°	994.5	969.2	980.6	978.1	950.7	895.0	799.0	674.6	614.4	546.3	435.3
15°	1085.6	1075.1	1071.6	1068.7	1057.7	1016.4	930.4	794.0	707.0	624.9	474.1
17.5°	1174.6	1147.8	1160.7	1163.2	1162.2	1124.9	1044.3	907.5	805.0	708.0	514.9
20°	1253.7	1256.2	1238.8	1235.3	1232.3	1230.9	1152.2	1019.9	925.4	795.0	568.2
22.5°	1355.2	1337.8	1353.2	1343.3	1323.9	1311.9	1251.7	1119.4	1029.9	900.0	622.4
25°	1475.1	1489.1	1452.7	1448.8	1427.4	1386.1	1331.8	1230.9	1130.4	997.5	681.1
27.5°	1622.9	1598.5	1589.1	1567.2	1528.4	1511.0	1447.3	1345.8	1251.7	1100.0	737.8
30°	1749.8	1743.3	1696.0	1670.2	1636.3	1635.8	1546.8	1501.5	1410.0	1260.7	815.9
32.5°	1853.2	1824.9	1807.5	1789.6	1762.2	1769.7	1694.5	1670.7	1578.6	1410.0	908.0
35°	1922.4	1902.0	1891.5	1864.2	1856.2	1889.6	1858.2	1848.3	1772.6	1619.9	1015.9
37.5°	1944.3	1950.8	1948.8	1914.4	1931.4	2021.4	2061.7	2035.8	1996.0	1841.3	1132.8
40°	1963.7	1968.2	1958.2	1998.5	2046.8	2149.3	2295.0	2252.2	2237.3	2065.7	1295.5
42.5°	1974.6	1971.2	1971.2	2040.8	2113.9	2319.9	2520.4	2492.0	2480.6	2304.5	1483.6
45°	1927.4	1893.5	1929.9	2024.4	2171.6	2404.0	2700.5	2739.8	2723.4	2588.6	1703.5
47.5°	1750.8	1771.6	1792.0	1918.4	2101.5	2378.1	2811.0	2944.8	2975.1	2827.4	1847.8
50°	1483.6	1479.1	1521.4	1680.6	1903.0	2266.7	2789.6	3004.0	3059.2	2899.0	1878.1
52.5°	1079.1	1111.9	1157.7	1315.9	1579.6	1978.1	2513.4	2851.3	2924.9	2811.0	1858.2
55°	628.4	592.0	695.0	828.9	1077.6	1492.0	2124.9	2527.4	2663.7	2650.8	1757.7
57.5°	251.7	243.8	279.1	376.1	562.2	924.9	1545.3	2076.6	2295.0	2427.9	1544.8
60°	110.4	108.0	126.9	153.2	229.9	426.4	845.3	1291.5	1519.4	1696.5	1063.2
62.5°	79.6	78.6	88.1	97.5	121.4	185.6	355.2	520.4	648.8	783.6	476.1
65°	64.2	66.7	73.1	78.1	89.6	103.0	125.4	144.8	177.6	184.1	105.0
67.5°	52.2	54.2	60.2	65.7	67.7	55.7	57.7	50.7	50.7	45.3	36.3
70°	38.3	38.8	45.8	52.2	41.8	22.4	39.3	39.3	35.3	33.8	30.8
72.5°	28.4	28.9	34.3	32.3	16.4	13.9	28.9	31.8	28.9	27.4	24.9
75°	20.9	21.4	17.9	7.5	7.0	9.0	16.9	21.9	20.9	20.4	18.9
77.5°	4.0	3.0	2.5	3.5	5.0	7.5	10.9	13.4	13.9	14.9	13.9
80°	0.5	0.5	1.5	3.0	5.5	8.0	11.4	12.9	13.4	13.9	12.9
82.5°	0.0	0.5	1.5	3.0	5.5	7.5	10.0	11.4	12.4	12.9	12.4
85°	0.0	0.5	1.0	2.5	4.5	5.5	5.0	3.5	3.0	3.5	2.5
87.5°	0.0	0.0	0.5	0.5	1.0	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°	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4
2.5°	317.4	315.4	308.5	301.0	294.5	297.5	294.5	292.0	293.0	292.0	291.0
5°	334.8	325.9	310.9	304.5	299.0	298.5	297.0	296.5	297.0	297.0	292.5
7.5°	351.2	336.8	320.9	313.9	307.5	308.0	304.5	304.5	304.0	301.5	300.5
10°	376.1	356.7	336.3	323.9	315.9	314.4	310.9	307.5	307.5	307.5	302.5
12.5°	403.5	379.1	351.2	336.8	327.4	319.9	314.4	313.4	308.0	307.0	304.5
15°	427.4	396.5	361.2	341.3	329.4	319.4	310.9	305.5	303.0	301.5	299.5
17.5°	450.7	411.4	366.7	341.3	328.4	316.9	308.0	303.0	297.0	298.0	294.0
20°	482.1	427.4	368.2	334.8	318.9	308.0	296.0	293.5	290.1	287.1	288.1
22.5°	512.4	438.8	363.7	326.9	304.0	291.0	285.1	282.1	280.6	278.1	274.6
25°	539.8	451.2	356.7	312.4	288.1	278.6	273.1	272.6	269.2	269.2	262.7
27.5°	567.7	455.7	344.8	295.5	274.1	268.7	266.2	265.2	263.7	260.2	255.7
30°	599.5	457.2	327.4	278.1	261.7	255.7	259.2	261.7	255.2	248.8	250.7
32.5°	625.9	453.7	306.5	261.7	252.7	249.8	256.7	259.2	251.7	244.8	241.3
35°	657.7	445.3	286.1	248.8	243.8	249.8	255.7	255.7	240.8	232.3	230.3
37.5°	706.0	435.8	267.2	237.8	234.3	246.8	254.7	249.3	225.9	215.4	212.9
40°	757.7	429.9	248.8	226.9	229.4	241.8	246.3	229.4	205.5	199.0	197.0
42.5°	832.8	417.9	232.3	217.4	224.9	234.8	234.8	204.5	195.5	192.0	191.5
45°	926.4	409.5	217.9	209.5	218.4	220.9	212.9	191.5	185.1	184.1	184.6
47.5°	972.1	393.0	203.0	200.0	206.5	207.0	186.1	181.1	175.6	174.1	173.1
50°	965.2	363.7	183.6	187.6	196.5	191.5	169.7	170.6	165.7	165.2	162.7
52.5°	916.4	317.4	164.2	173.6	183.6	169.2	156.2	155.2	155.2	148.8	146.3
55°	812.4	255.7	140.8	152.7	164.7	142.3	138.8	137.8	135.3	129.4	127.9
57.5°	643.3	187.6	106.0	118.9	139.8	120.9	120.4	115.9	109.5	105.0	105.0
60°	382.6	108.0	66.7	72.6	92.5	98.0	109.0	107.0	96.0	89.1	87.1
62.5°	174.6	55.7	42.3	43.3	49.8	63.7	85.6	99.0	83.6	71.6	70.6
65°	58.7	41.3	34.8	33.3	34.3	38.3	51.2	70.1	66.7	55.2	53.2
67.5°	35.8	36.8	32.8	30.3	30.3	29.9	29.4	31.8	39.3	38.3	38.8
70°	30.8	33.8	30.3	27.4	26.4	24.9	20.9	17.4	14.9	17.4	18.4
72.5°	24.9	26.9	25.9	23.4	20.9	18.9	14.9	11.4	8.5	7.5	7.5
75°	18.4	19.9	20.9	17.9	15.9	13.4	10.9	7.5	4.5	3.0	3.0
77.5°	13.4	14.9	15.4	13.9	11.9	9.5	7.0	5.0	2.5	1.0	1.0
80°	11.4	13.4	14.9	13.9	12.4	9.0	6.5	3.5	2.0	0.5	0.5
82.5°	10.9	13.4	14.9	13.4	11.9	8.5	6.5	4.0	1.5	0.5	0.5
85°	2.5	3.5	4.5	5.5	6.5	6.5	5.0	3.0	1.5	0.5	0.5
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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)