

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: P651743

Luminaire Tested: **GALN-SA2A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651743
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-SA2A-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4562.4 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

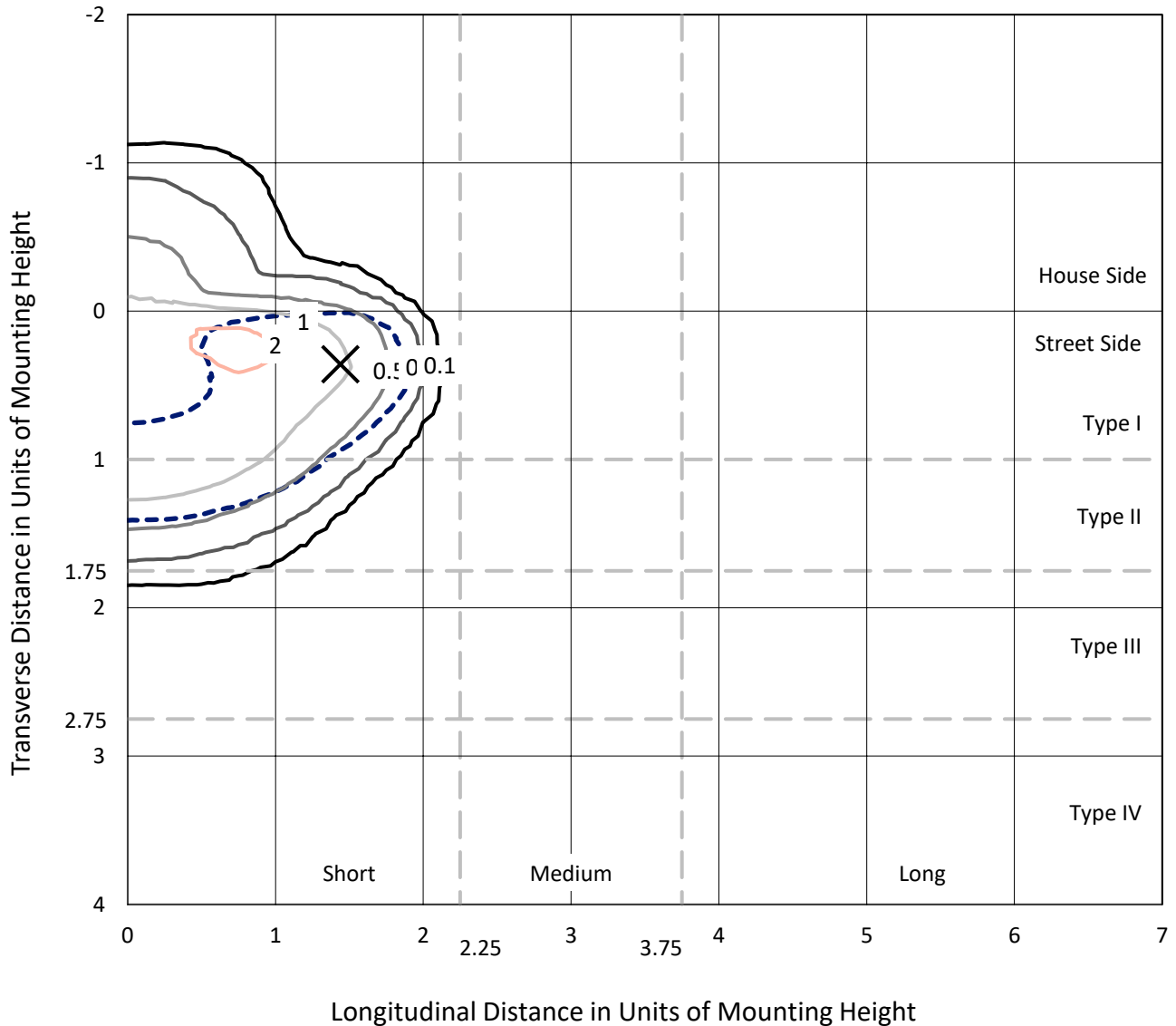
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

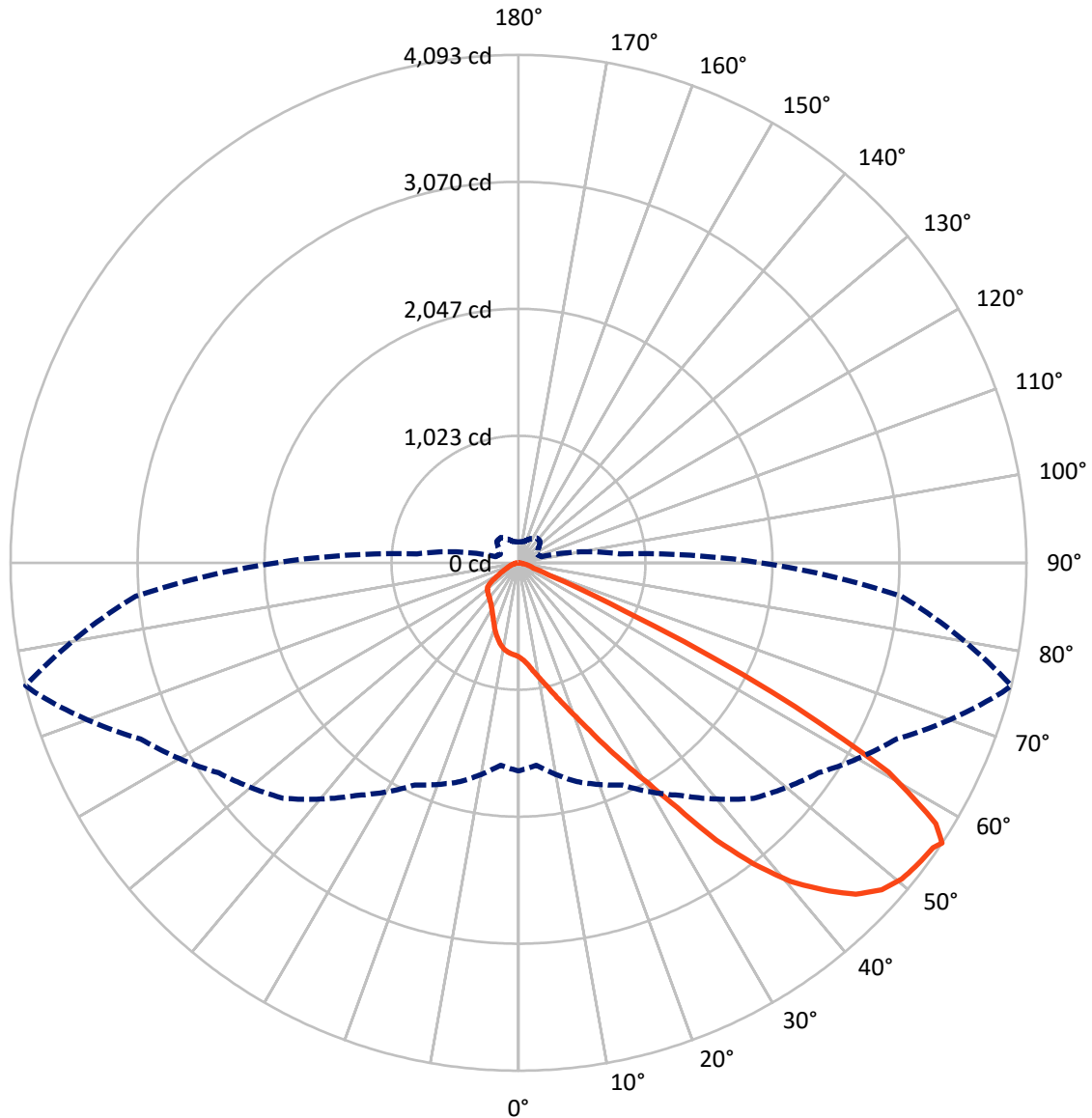
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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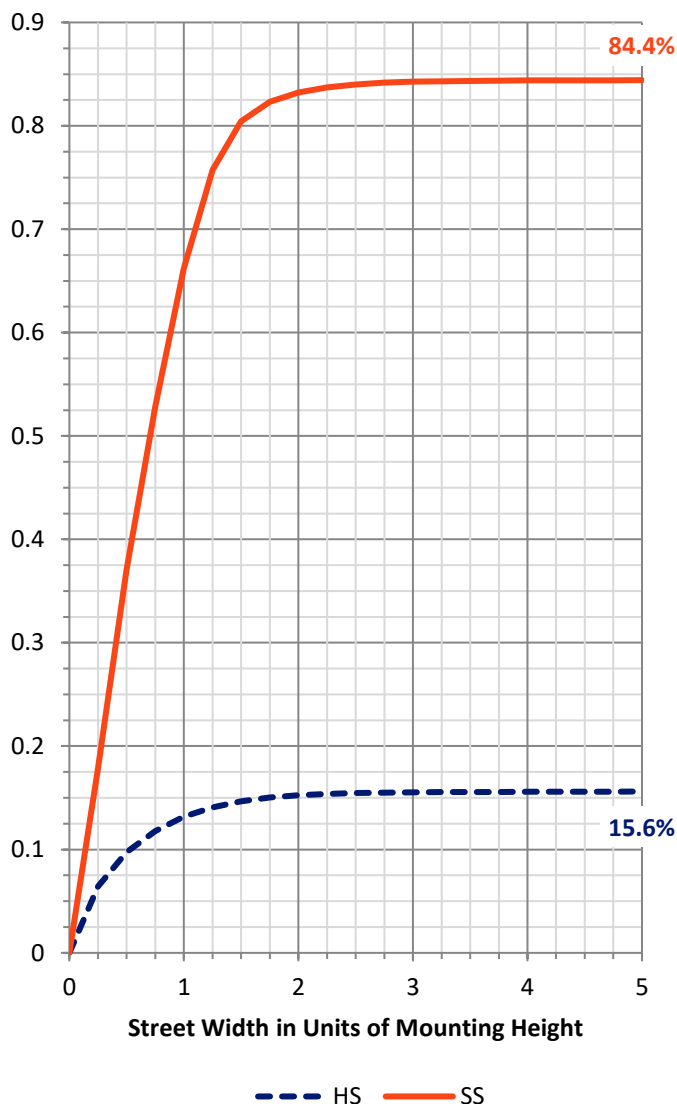
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.7	0.0	716.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	3845.7	0.0	3845.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	4562.4	0.0	4562.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.7
10°-20°	245.8	5.4
20°-30°	445.6	9.8
30°-40°	768.5	16.8
40°-50°	1248.5	27.4
50°-60°	1316.0	28.8
60°-70°	402.1	8.8
70°-80°	51.5	1.1
80°-90°	7.8	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°	4562.4	100.0
0°-180°	4562.4	100.0

Coefficient of Utilization

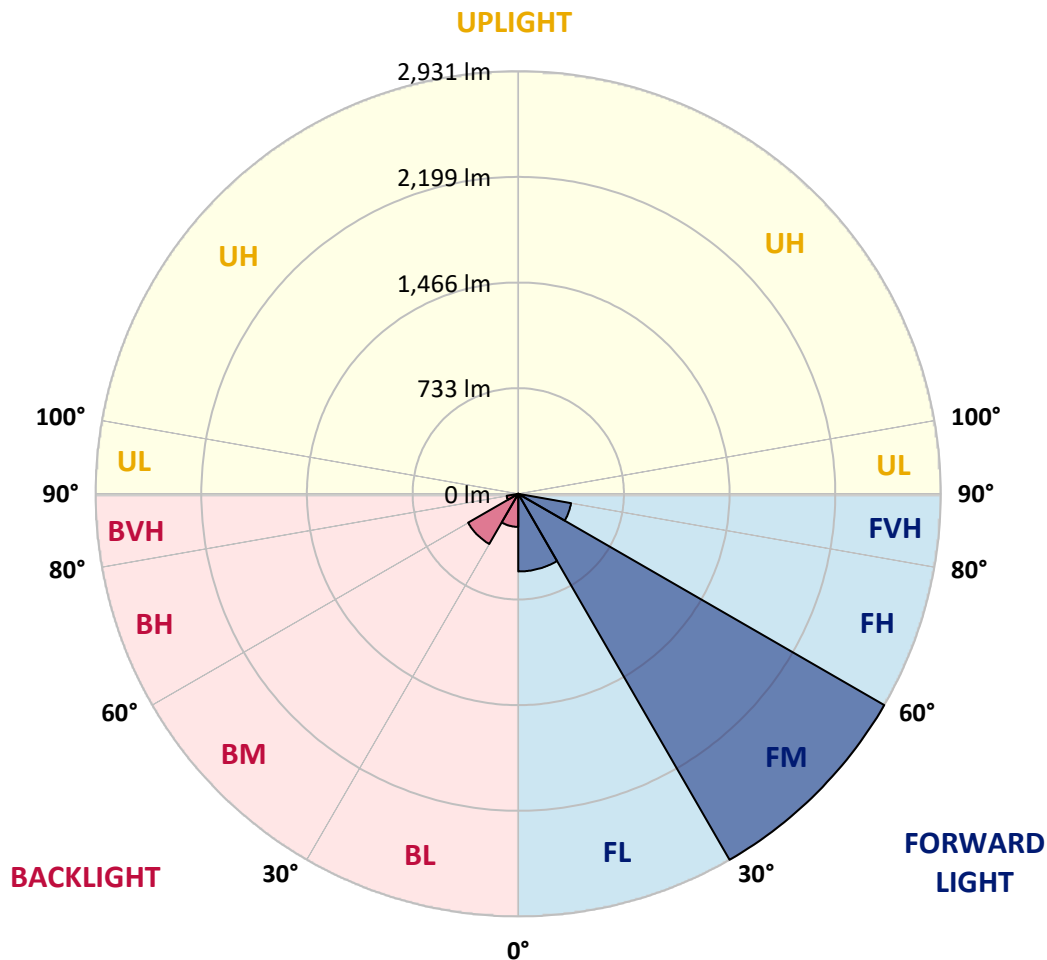


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.6	11.8			
FM (30°-60°)	2931.4	64.2			
FH (60°-80°)	371.9	8.2			G0/660
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	229.3	5.0	B1/500		
BM (30°-60°)	401.7	8.8	B1/1000		
BH (60°-80°)	81.8	1.8	B0/110		G0/110
BVH (80°-90°)	4.0	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°	759.4	759.4	759.4	759.4	759.4	759.4	759.4	759.4	759.4	759.4	759.4
2.5°	874.6	854.5	855.3	853.6	851.1	841.8	814.1	809.9	791.4	786.3	769.5
5°	979.8	962.1	972.2	957.1	942.8	934.4	888.9	867.9	838.5	827.5	804.0
7.5°	1045.4	1037.0	1033.6	1034.4	1021.0	999.9	979.8	933.5	894.0	885.6	836.0
10°	1077.3	1072.3	1077.3	1074.8	1080.7	1083.2	1047.9	1020.1	962.1	947.8	870.4
12.5°	1084.9	1095.0	1099.2	1110.1	1124.4	1148.8	1146.3	1108.4	1031.1	1021.8	923.4
15°	1103.4	1111.8	1107.6	1125.3	1152.2	1193.4	1215.2	1209.4	1126.1	1109.3	984.8
17.5°	1120.2	1105.1	1119.4	1154.7	1181.6	1244.7	1297.7	1322.1	1229.5	1210.2	1041.2
20°	1142.9	1138.7	1136.2	1153.9	1201.8	1285.9	1391.0	1435.6	1345.6	1325.4	1121.9
22.5°	1211.9	1212.7	1211.0	1185.0	1219.4	1314.5	1472.6	1582.8	1484.4	1467.5	1213.6
25°	1302.7	1291.8	1283.4	1262.3	1258.1	1340.6	1555.0	1762.7	1650.9	1639.1	1312.8
27.5°	1398.6	1398.6	1373.4	1354.0	1327.1	1405.3	1630.7	1937.7	1851.9	1835.9	1399.4
30°	1502.9	1508.8	1505.4	1464.2	1447.4	1476.0	1708.1	2161.4	2082.3	2062.1	1542.4
32.5°	1656.8	1644.2	1658.5	1624.0	1574.4	1599.6	1830.0	2361.5	2381.7	2353.1	1729.9
35°	1860.3	1852.7	1843.5	1787.1	1728.3	1748.4	2002.4	2607.9	2757.6	2743.3	1919.2
37.5°	2042.8	2038.6	2031.0	1992.3	1924.2	1948.6	2198.4	2864.4	3124.3	3077.2	2186.6
40°	2234.5	2257.2	2232.9	2198.4	2136.1	2190.0	2428.8	3016.7	3433.0	3375.8	2391.0
42.5°	2494.4	2476.7	2487.7	2424.6	2391.0	2449.8	2660.1	3168.9	3672.6	3604.5	2607.9
45°	2771.1	2771.9	2742.5	2722.3	2634.9	2698.8	2802.2	3253.0	3863.6	3810.6	2771.9
47.5°	2948.5	2947.7	2979.7	3011.6	2921.6	2858.6	2898.9	3332.9	3962.0	3937.6	2831.6
50°	2920.8	2929.2	2970.4	3089.8	3136.9	3052.0	2989.8	3309.3	4006.5	4004.0	2882.9
52.5°	2540.7	2568.4	2637.4	2809.8	3046.9	3152.1	3084.8	3353.1	4028.4	4032.6	2959.5
55°	1934.3	1949.4	2080.6	2290.0	2552.4	2912.4	3046.9	3387.5	4045.2	4052.8	3052.0
56°	1677.8	1637.4	1826.7	1975.5	2289.2	2682.8	2951.1	3360.6	4035.1	4093.1	3098.2
57.5°	1266.5	1239.6	1392.7	1578.6	1880.5	2295.9	2653.4	3233.6	3967.0	3966.2	3031.8
60°	770.4	743.4	861.2	970.5	1139.6	1413.7	1793.0	2575.1	3353.9	3424.6	2454.9
62.5°	458.3	475.2	591.2	657.7	712.3	740.9	927.6	1530.6	2237.9	2288.4	1523.1
65°	305.3	311.2	398.6	508.0	532.4	423.9	377.6	619.8	970.5	939.4	628.2
67.5°	188.4	201.8	267.4	381.8	423.0	309.5	179.1	231.3	267.4	267.4	181.7
70°	114.4	121.1	178.3	259.9	290.1	199.3	130.4	130.4	128.7	126.2	108.5
72.5°	54.7	58.9	90.8	133.7	136.2	105.1	100.9	110.2	107.6	106.8	90.0
75°	23.5	25.2	32.0	42.0	47.9	44.6	61.4	79.1	81.6	79.1	64.8
77.5°	7.6	8.4	11.8	15.1	16.0	19.3	26.1	32.8	37.8	35.3	32.0
80°	0.8	1.7	3.4	7.6	11.8	15.1	19.3	21.9	24.4	24.4	22.7
82.5°	0.8	0.8	3.4	6.7	10.9	14.3	18.5	21.0	24.4	25.2	23.5
85°	0.0	0.8	2.5	5.9	9.3	9.3	8.4	8.4	5.9	5.9	5.9
87.5°	0.0	0.0	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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°	759.4	759.4	759.4	759.4	759.4	759.4	759.4	759.4	759.4	759.4	759.4
2.5°	766.2	764.5	741.8	727.5	719.9	704.8	695.5	688.8	683.7	677.8	678.7
5°	776.2	770.4	732.5	706.4	675.3	658.5	644.2	632.4	624.9	623.2	619.8
7.5°	804.8	773.7	716.5	669.4	629.9	613.1	600.5	592.9	596.3	588.7	594.6
10°	826.7	780.4	697.2	629.1	589.5	576.9	570.2	576.1	584.5	581.1	576.9
12.5°	853.6	787.2	666.1	590.4	553.4	544.1	555.9	566.8	583.7	590.4	582.0
15°	883.9	794.7	626.5	545.8	522.3	529.8	550.0	569.4	586.2	594.6	599.6
17.5°	920.9	792.2	587.9	510.5	492.8	514.7	539.1	556.7	582.0	594.6	591.2
20°	955.4	783.8	545.0	475.2	476.0	496.2	516.4	545.0	558.4	575.2	569.4
22.5°	988.2	768.7	500.4	450.8	450.8	481.9	492.0	510.5	522.3	530.7	529.8
25°	1034.4	740.1	463.4	427.2	437.3	457.5	465.9	471.8	466.8	473.5	474.3
27.5°	1067.2	710.6	433.1	406.2	424.7	439.8	437.3	434.0	422.2	412.9	418.8
30°	1102.6	676.2	407.0	391.9	402.0	415.5	405.4	395.3	376.8	361.6	362.5
32.5°	1153.0	660.2	384.3	375.1	388.5	390.2	379.3	364.2	345.7	331.4	330.5
35°	1247.2	650.1	365.0	364.2	366.7	367.5	356.6	338.1	330.5	318.7	322.9
37.5°	1341.4	645.0	351.5	348.2	347.3	348.2	335.6	317.9	332.2	331.4	333.0
40°	1461.7	667.8	332.2	328.0	328.8	328.8	312.9	307.8	333.0	335.6	336.4
42.5°	1583.6	696.3	319.6	306.1	309.5	309.5	301.1	295.2	312.9	296.0	293.5
45°	1689.6	738.4	306.1	284.3	292.7	296.9	294.3	284.3	273.3	244.7	244.7
47.5°	1724.0	775.4	290.1	263.2	270.0	288.5	280.9	259.9	240.5	217.0	215.3
50°	1784.6	815.8	277.5	238.8	253.1	275.8	268.3	247.3	225.4	208.6	209.4
52.5°	1846.8	862.0	254.0	210.2	227.9	265.8	265.8	242.2	208.6	196.8	195.1
55°	1940.2	860.3	211.9	172.4	203.5	250.6	254.8	217.0	186.7	177.5	177.5
56°	1953.6	821.7	190.9	161.5	192.6	246.4	247.3	210.2	178.3	168.2	168.2
57.5°	1852.7	741.8	167.4	148.0	179.1	238.8	239.7	204.4	171.6	157.3	155.6
60°	1425.5	502.1	139.6	132.0	162.3	215.3	219.5	185.9	150.5	139.6	138.8
62.5°	804.8	278.4	122.8	119.4	139.6	183.3	196.0	162.3	127.8	121.9	123.6
65°	367.5	153.1	103.4	96.7	112.7	141.3	158.1	133.7	105.1	98.4	98.4
67.5°	134.6	104.3	88.3	76.5	79.1	91.7	102.6	86.6	69.8	59.7	62.2
70°	95.9	87.5	77.4	66.4	61.4	59.7	58.9	48.8	34.5	26.9	28.6
72.5°	77.4	72.3	64.8	56.3	47.9	40.4	34.5	25.2	16.0	10.9	10.1
75°	55.5	53.0	47.1	40.4	33.6	28.6	23.5	16.0	8.4	4.2	4.2
77.5°	28.6	28.6	27.8	25.2	21.0	16.8	13.5	9.3	5.0	1.7	1.7
80°	21.9	23.5	24.4	21.9	19.3	15.1	10.9	6.7	3.4	0.8	0.8
82.5°	21.0	24.4	26.1	22.7	19.3	14.3	10.9	6.7	3.4	0.8	0.8
85°	5.0	5.0	7.6	8.4	10.9	11.8	9.3	5.9	2.5	0.8	0.8
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	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)