

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: P526318

Luminaire Tested: **GALN-SA1B-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4608 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

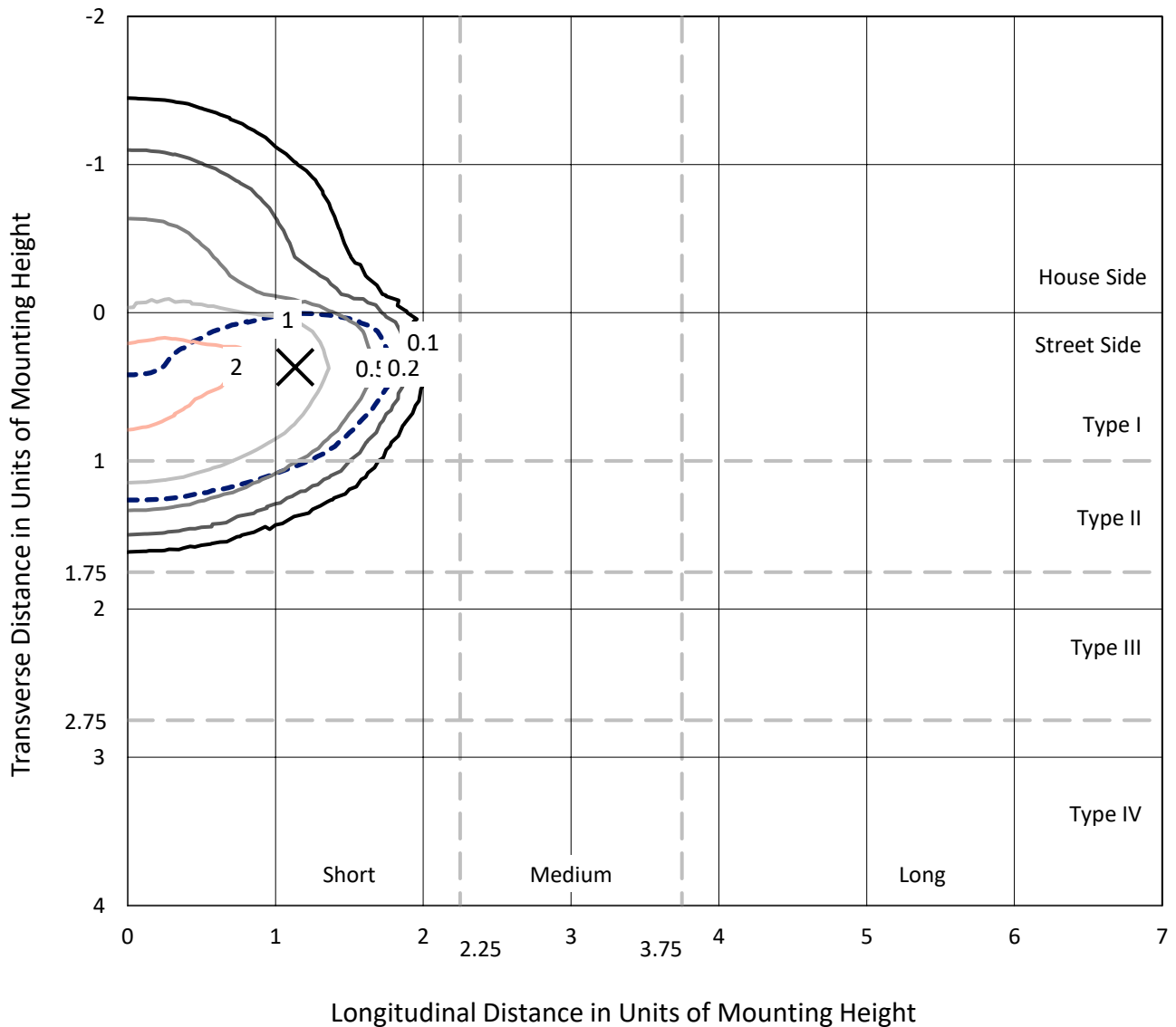
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

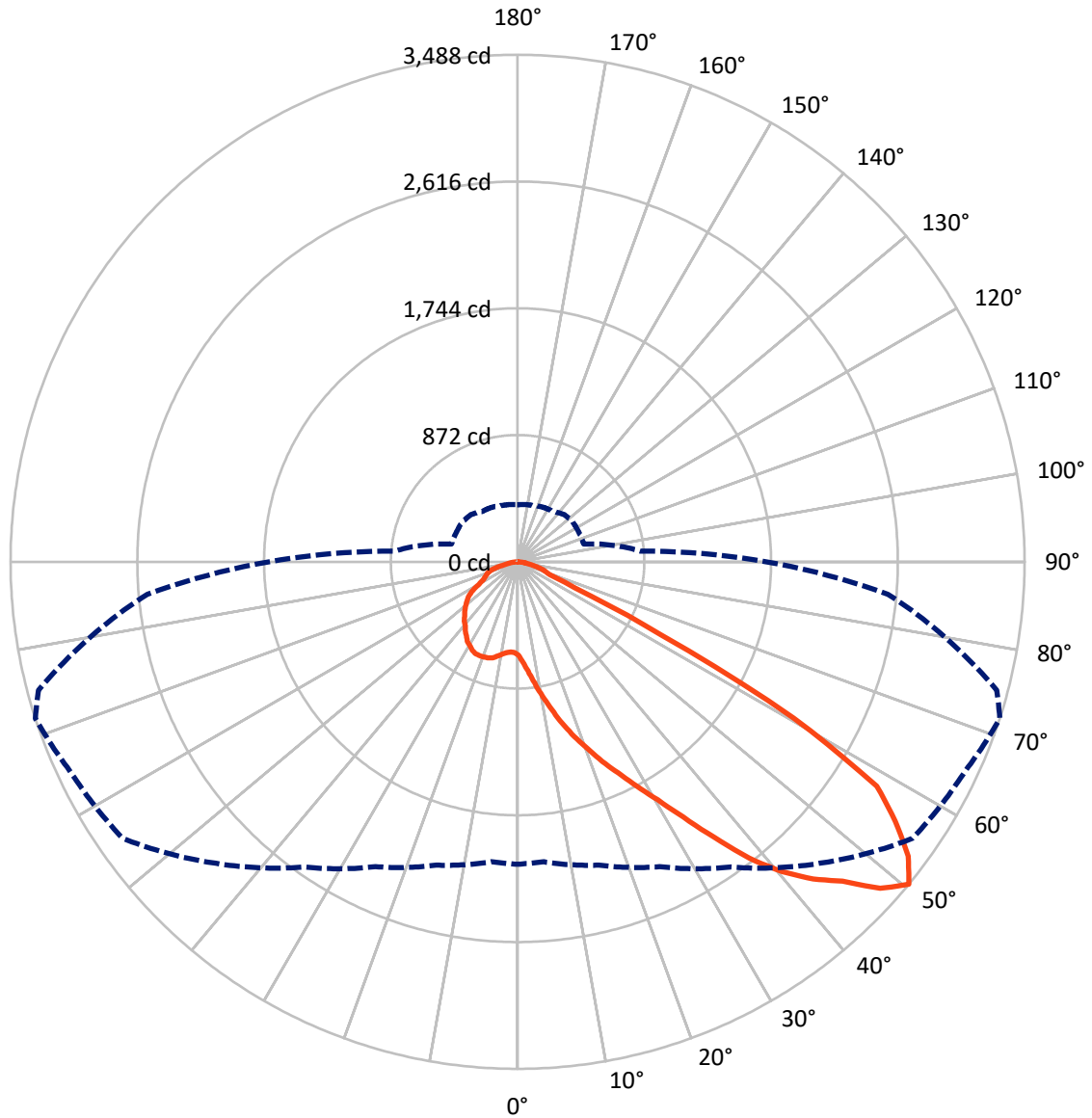
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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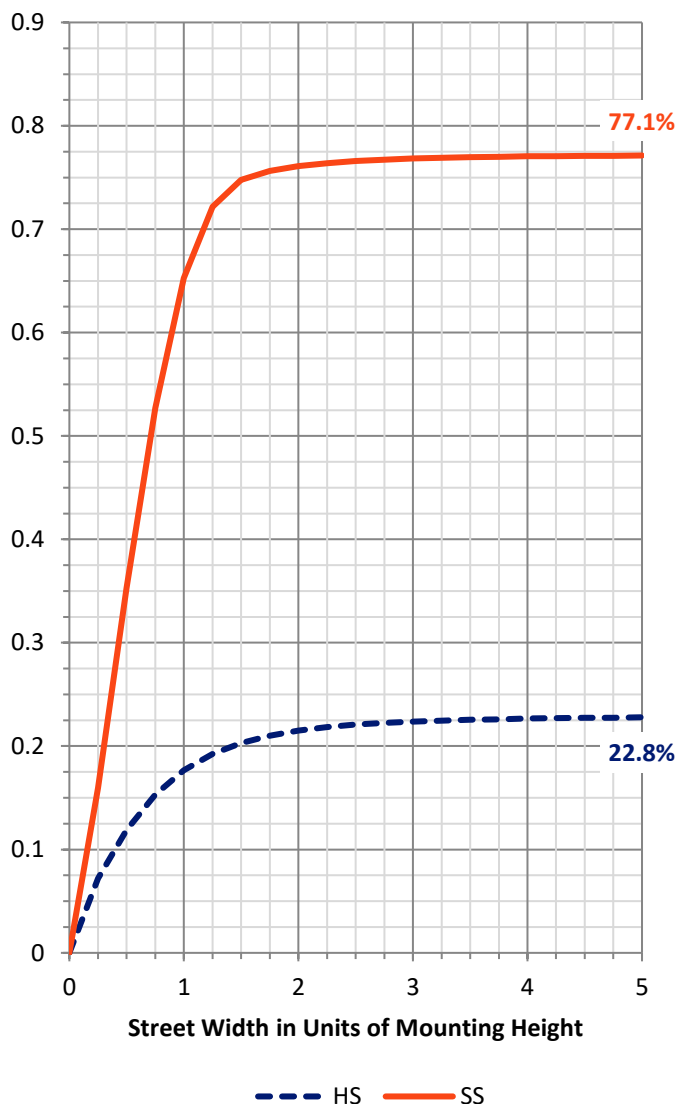
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1055.7	0.0	1055.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3552.3	0.0	3552.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	4608.0	0.0	4608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.6
10°-20°	282.1	6.1
20°-30°	546.9	11.9
30°-40°	906.0	19.7
40°-50°	1267.8	27.5
50°-60°	1069.5	23.2
60°-70°	326.0	7.1
70°-80°	114.4	2.5
80°-90°	19.9	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°	4608.0	100.0
0°-180°	4608.0	100.0

Coefficient of Utilization

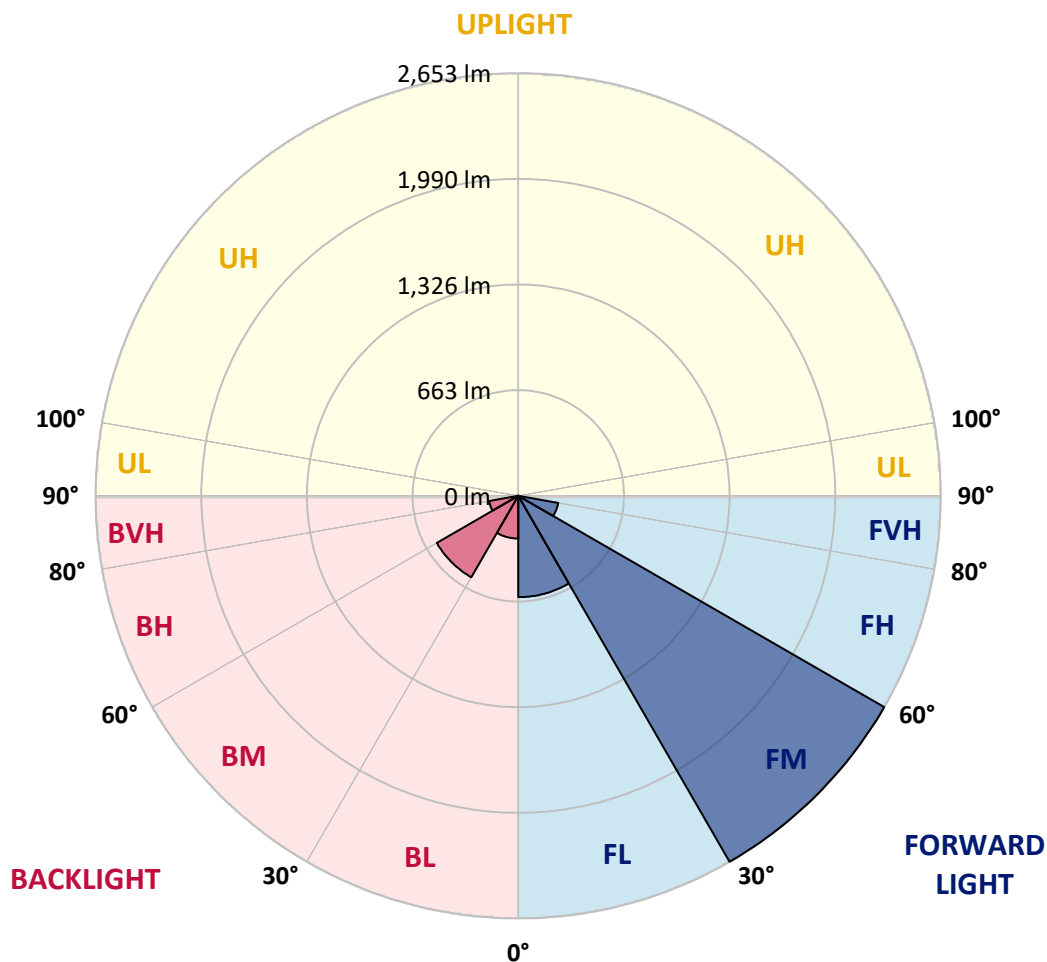


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.1	13.8			
FM (30°-60°)	2652.9	57.6			
FH (60°-80°)	254.4	5.5			G0/660
FVH (80°-90°)	8.9	0.2			G0/10
BL (0°-30°)	268.4	5.8	B1/500		
BM (30°-60°)	590.4	12.8	B1/1000		
BH (60°-80°)	186.0	4.0	B1/500		G1/500
BVH (80°-90°)	11.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
2.5°	825.1	819.9	804.5	799.4	781.2	748.1	736.7	703.1	688.8	675.7	660.3
5°	1043.5	1019.5	1017.8	988.7	946.5	922.0	849.0	800.0	754.9	732.1	689.9
7.5°	1182.6	1183.2	1183.2	1159.2	1125.6	1063.4	997.8	909.5	841.6	808.0	736.1
10°	1314.9	1303.5	1297.2	1294.9	1272.1	1211.7	1141.5	1032.1	939.1	899.8	770.9
12.5°	1408.4	1398.7	1413.0	1405.5	1389.0	1349.7	1283.5	1158.6	1042.3	989.3	826.8
15°	1452.9	1459.7	1471.1	1491.6	1484.2	1469.4	1396.4	1288.6	1153.5	1093.6	876.4
17.5°	1521.3	1502.5	1516.2	1541.8	1562.3	1555.5	1513.9	1382.7	1263.6	1190.0	943.1
20°	1569.2	1558.4	1565.2	1594.8	1610.2	1649.0	1627.3	1505.9	1369.0	1291.5	1021.8
22.5°	1706.0	1690.1	1667.8	1672.4	1678.1	1705.5	1710.6	1641.0	1491.6	1409.5	1096.5
25°	1874.8	1860.0	1833.8	1807.0	1790.4	1785.3	1803.0	1747.1	1609.1	1524.1	1176.9
27.5°	2060.7	2035.6	2019.1	1963.8	1919.3	1912.4	1903.9	1873.7	1748.2	1656.4	1267.6
30°	2241.4	2221.5	2199.3	2110.9	2064.7	2057.3	2015.1	2023.6	1899.3	1797.3	1370.2
32.5°	2378.3	2380.0	2329.3	2262.5	2219.2	2179.9	2164.5	2189.0	2093.2	2011.1	1484.8
35°	2488.9	2494.0	2445.6	2385.1	2338.4	2365.8	2358.9	2370.3	2324.7	2224.3	1618.2
37.5°	2596.7	2571.0	2519.1	2490.1	2465.5	2510.6	2568.7	2578.4	2587.0	2469.0	1773.3
40°	2614.4	2616.6	2586.4	2606.9	2576.2	2644.0	2779.1	2766.6	2801.4	2698.2	1941.5
42.5°	2589.3	2594.4	2606.4	2635.5	2709.6	2791.1	2991.8	2940.5	2982.7	2890.9	2105.2
45°	2548.2	2527.1	2541.9	2652.6	2780.9	2962.2	3186.3	3146.4	3132.7	3055.7	2300.2
47.5°	2352.1	2373.7	2419.9	2556.2	2748.9	2991.8	3324.3	3315.1	3356.2	3302.0	2477.5
50°	2080.1	2071.5	2160.5	2313.9	2562.5	2933.7	3316.8	3399.5	3487.9	3412.6	2556.8
52.5°	1557.8	1603.4	1679.8	1870.2	2224.9	2616.6	3154.9	3292.9	3364.7	3348.8	2492.9
55°	984.7	998.4	1044.6	1271.0	1590.3	2100.0	2704.4	3024.3	3152.6	3212.5	2434.2
57.5°	478.4	452.7	509.2	691.1	918.6	1412.4	2085.8	2634.3	2913.1	3021.5	2306.5
60°	249.7	259.4	281.7	346.7	475.0	733.3	1300.1	1755.6	2181.6	2348.1	1748.2
62.5°	207.0	210.4	225.2	257.7	315.9	421.9	663.7	855.9	1112.5	1262.4	994.4
65°	175.6	177.3	193.3	215.0	252.0	297.1	341.5	357.5	432.8	444.2	353.5
67.5°	146.5	148.3	165.4	185.9	209.8	221.8	233.2	232.1	240.6	237.2	236.6
70°	112.9	114.6	132.3	154.0	165.9	159.1	194.4	202.4	205.8	208.7	213.3
72.5°	81.5	85.0	98.6	114.0	107.8	123.7	160.2	172.2	176.8	178.5	184.2
75°	59.3	60.4	63.9	59.3	68.4	86.1	112.9	127.7	133.4	135.1	143.7
77.5°	26.2	26.8	27.4	34.2	43.9	53.6	67.3	79.3	87.2	89.5	91.8
80°	13.7	14.3	17.7	23.4	31.4	39.3	49.0	55.9	61.0	61.6	63.9
82.5°	8.6	9.1	12.5	16.5	22.2	29.1	35.9	41.6	45.6	46.2	46.8
85°	4.0	5.1	7.4	10.3	14.8	18.8	19.4	16.5	17.7	18.2	17.1
87.5°	1.1	1.7	2.3	1.7	2.3	2.3	2.9	3.4	3.4	3.4	4.0
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°	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
2.5°	651.7	646.6	626.6	619.2	599.8	603.3	593.0	592.4	590.2	589.6	589.0
5°	667.7	651.7	627.8	609.5	598.7	597.6	590.2	590.2	592.4	594.1	590.2
7.5°	693.9	675.7	635.2	618.1	608.4	606.7	601.6	597.6	602.7	601.0	596.4
10°	724.2	692.2	649.5	634.6	618.7	614.7	614.7	616.4	607.8	610.7	606.1
12.5°	757.8	715.0	667.7	650.6	631.8	629.5	628.4	615.8	620.4	618.1	606.7
15°	800.6	741.3	691.1	662.0	646.0	635.8	620.9	618.7	615.8	610.1	605.0
17.5°	846.7	769.8	701.9	665.4	641.5	634.1	622.7	610.7	602.1	603.3	599.3
20°	886.1	796.0	705.9	668.8	638.1	623.8	606.1	598.7	589.6	589.0	588.4
22.5°	932.8	831.3	711.6	659.7	627.8	613.0	601.0	587.9	581.6	573.6	577.6
25°	988.7	845.0	712.7	654.6	620.4	594.1	587.9	573.6	571.3	559.9	562.2
27.5°	1029.2	852.4	703.6	638.6	603.3	583.3	571.9	561.6	557.7	549.1	546.8
30°	1083.4	863.9	684.2	618.7	586.2	563.9	557.1	554.8	543.4	534.3	533.1
32.5°	1145.0	871.3	671.7	598.1	568.5	551.4	554.8	544.0	529.7	521.7	519.5
35°	1194.0	874.1	640.3	574.8	556.5	545.7	541.7	539.4	518.9	511.5	505.8
37.5°	1268.7	867.8	614.1	558.2	543.4	539.4	536.0	520.6	497.2	486.4	478.4
40°	1355.9	866.1	580.5	534.8	530.9	535.4	525.2	501.2	468.7	456.7	451.0
42.5°	1439.8	878.1	559.4	522.3	517.2	518.9	504.6	468.7	452.7	445.9	436.8
45°	1580.0	903.2	524.6	502.9	500.6	499.5	482.4	444.8	435.6	427.1	425.4
47.5°	1706.6	886.7	502.3	483.0	485.2	479.0	442.5	430.5	420.2	411.7	408.8
50°	1714.0	847.3	471.0	467.6	468.1	457.3	422.5	414.5	401.4	395.7	391.7
52.5°	1675.2	782.9	441.9	443.0	444.8	427.1	398.0	392.3	381.5	373.5	371.2
55°	1566.3	682.5	413.4	418.0	422.5	388.9	379.8	365.5	356.9	345.5	346.1
57.5°	1379.9	549.7	373.5	380.9	390.6	353.5	346.7	329.0	316.5	307.3	306.2
60°	924.9	391.2	313.6	316.5	338.1	323.3	322.7	305.1	288.0	280.0	275.4
62.5°	545.7	298.8	270.8	268.0	267.4	276.0	290.2	284.0	261.7	246.3	250.9
65°	285.7	258.3	252.0	242.3	236.6	234.4	245.2	248.0	233.2	216.7	215.5
67.5°	240.1	240.1	234.9	231.5	223.5	213.8	207.0	197.9	195.6	191.0	185.3
70°	218.4	224.1	222.4	214.4	207.6	196.7	179.0	164.2	150.0	144.8	148.3
72.5°	190.4	196.1	196.1	192.2	183.0	166.5	149.4	132.3	120.3	111.2	110.0
75°	146.5	149.4	156.2	151.7	139.7	129.4	111.8	94.1	82.7	74.1	72.4
77.5°	93.5	98.1	98.1	97.5	89.0	79.3	67.9	55.3	46.8	40.5	38.8
80°	62.2	65.0	67.3	65.0	59.3	51.9	43.3	34.8	28.5	23.4	22.2
82.5°	45.6	49.0	50.7	48.5	42.8	37.1	30.8	24.5	18.2	14.3	13.1
85°	17.7	18.2	20.5	24.5	23.9	23.4	18.8	13.7	10.3	7.4	6.8
87.5°	4.6	4.0	4.6	4.6	4.0	3.4	3.4	3.4	3.4	1.7	2.3
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)