

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: P652187

Luminaire Tested: **GALN-SA1B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652187
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-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 4255.4 lumens
Efficiency: N/A
Efficacy: 96.7 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

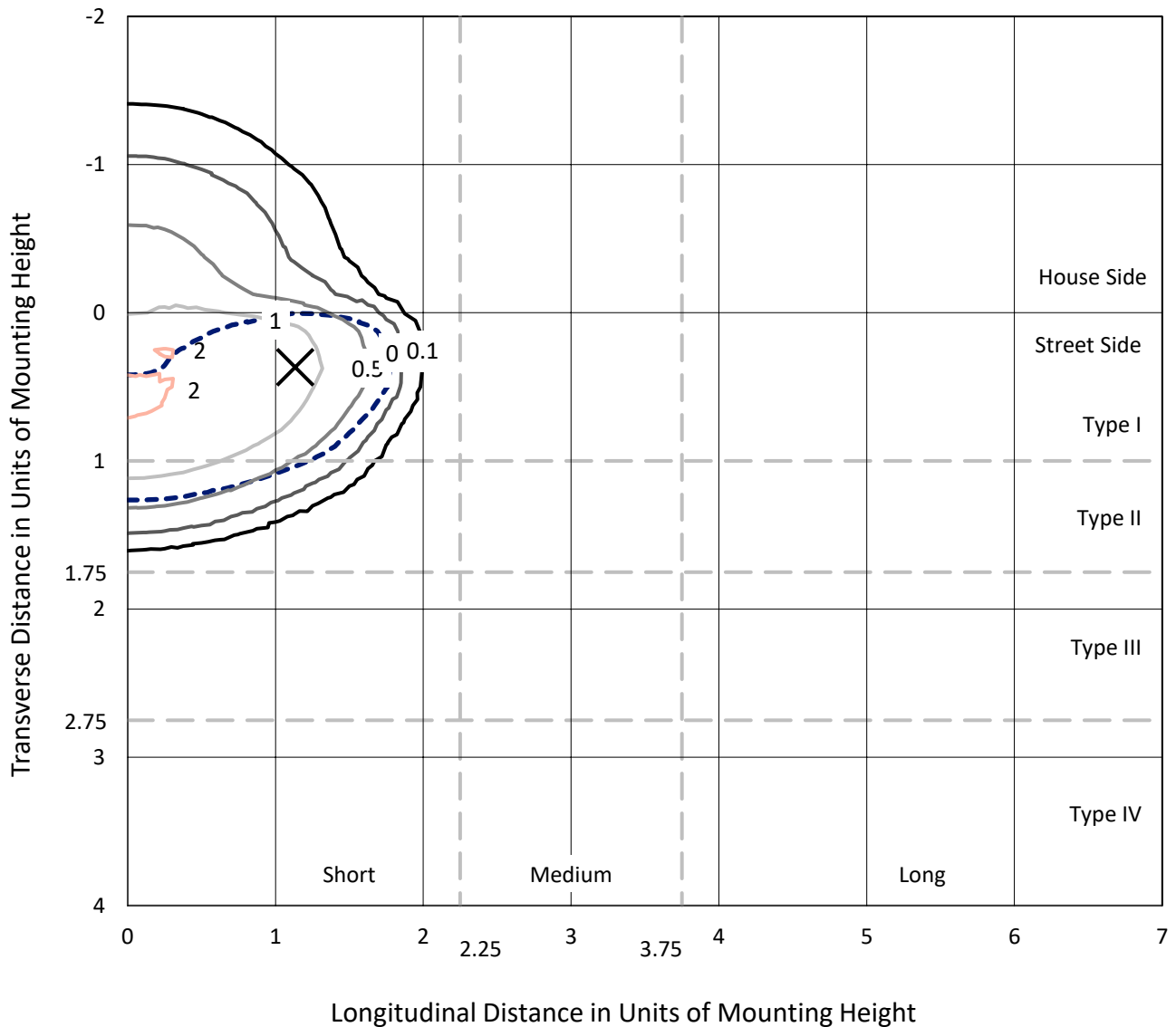
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

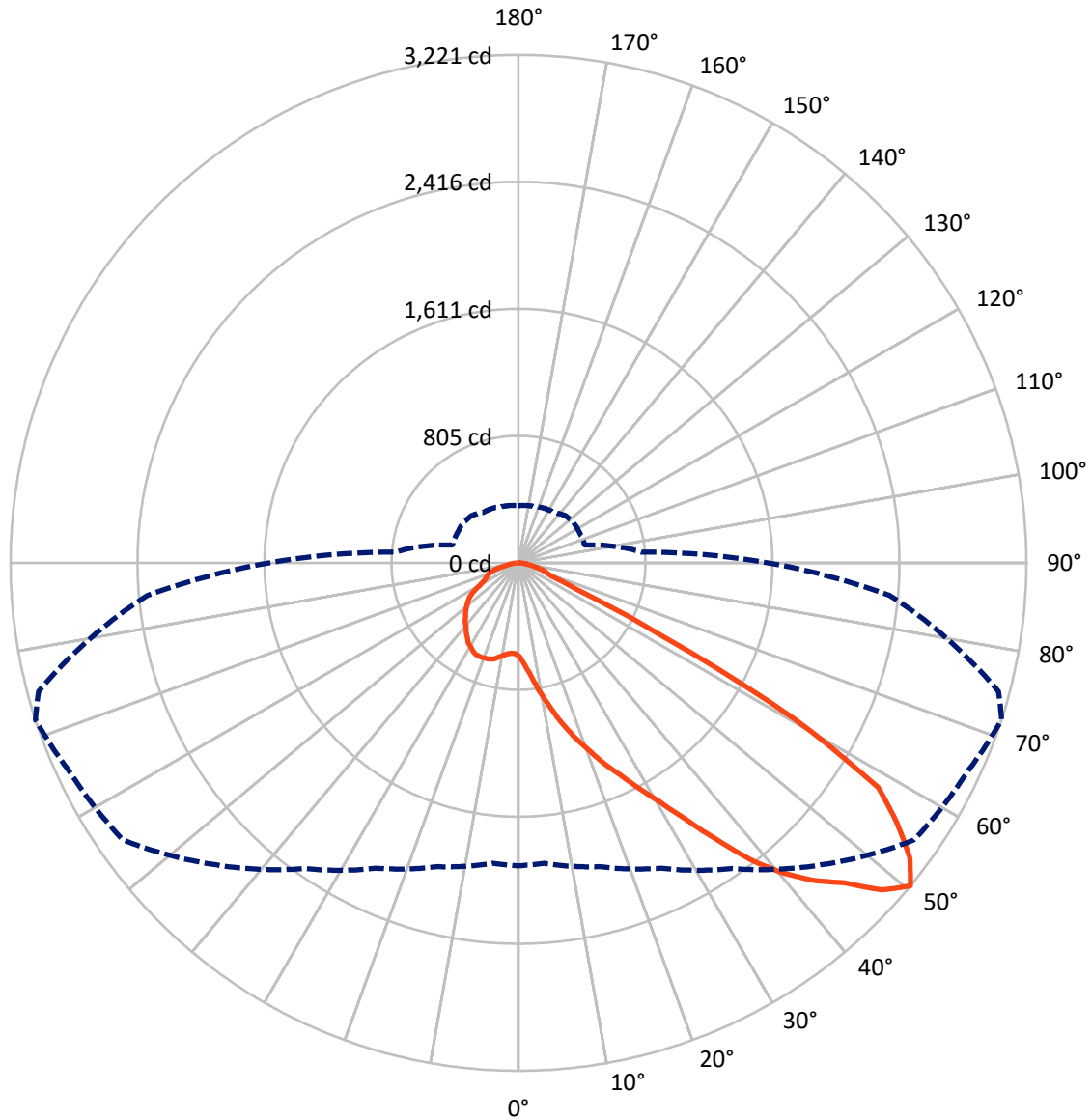
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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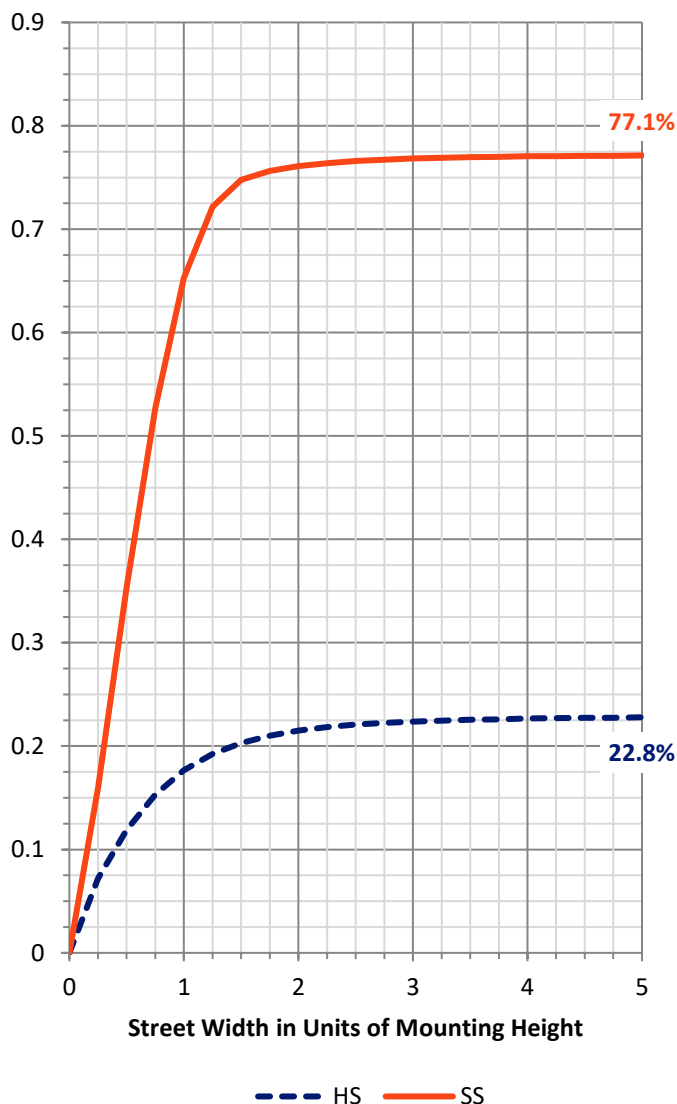
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.9	0.0	974.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3280.5	0.0	3280.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	4255.4	0.0	4255.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.6
10°-20°	260.5	6.1
20°-30°	505.1	11.9
30°-40°	836.7	19.7
40°-50°	1170.8	27.5
50°-60°	987.7	23.2
60°-70°	301.0	7.1
70°-80°	105.6	2.5
80°-90°	18.4	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°	4255.4	100.0
0°-180°	4255.4	100.0

Coefficient of Utilization

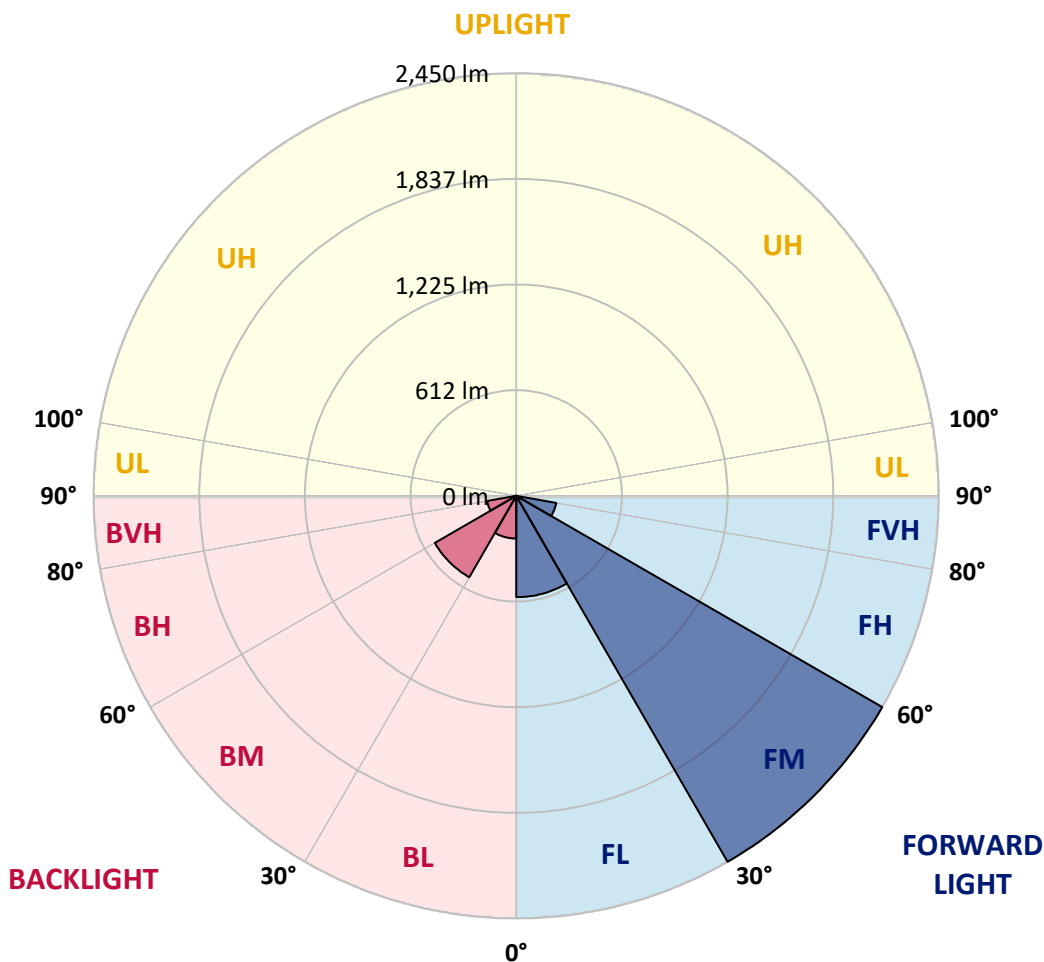


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.4	13.8			
FM (30°-60°)	2450.0	57.6			
FH (60°-80°)	234.9	5.5			G0/660
FVH (80°-90°)	8.2	0.2			G0/10
BL (0°-30°)	247.8	5.8	B1/500		
BM (30°-60°)	545.2	12.8	B1/1000		
BH (60°-80°)	171.8	4.0	B1/500		G1/500
BVH (80°-90°)	10.1	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°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	761.9	757.2	743.0	738.2	721.4	690.9	680.4	649.3	636.1	624.0	609.8
5°	963.6	941.5	939.9	913.1	874.1	851.5	784.1	738.8	697.2	676.1	637.1
7.5°	1092.1	1092.6	1092.6	1070.5	1039.5	982.0	921.5	839.9	777.3	746.1	679.8
10°	1214.3	1203.7	1197.9	1195.8	1174.8	1119.0	1054.2	953.1	867.2	830.9	711.9
12.5°	1300.6	1291.7	1304.8	1298.0	1282.8	1246.4	1185.3	1070.0	962.6	913.6	763.5
15°	1341.7	1348.0	1358.6	1377.6	1370.7	1357.0	1289.6	1190.1	1065.3	1010.0	809.4
17.5°	1404.9	1387.5	1400.2	1423.9	1442.8	1436.5	1398.1	1277.0	1166.9	1098.9	870.9
20°	1449.1	1439.1	1445.4	1472.8	1487.1	1522.9	1502.9	1390.7	1264.3	1192.7	943.6
22.5°	1575.5	1560.7	1540.2	1544.4	1549.7	1575.0	1579.7	1515.5	1377.6	1301.7	1012.6
25°	1731.4	1717.7	1693.4	1668.7	1653.4	1648.7	1665.0	1613.5	1486.0	1407.5	1086.8
27.5°	1903.0	1879.9	1864.6	1813.5	1772.5	1766.1	1758.2	1730.4	1614.5	1529.7	1170.6
30°	2070.0	2051.5	2031.0	1949.4	1906.7	1899.9	1860.9	1868.8	1754.0	1659.8	1265.4
32.5°	2196.4	2198.0	2151.0	2089.5	2049.4	2013.1	1998.9	2021.5	1933.0	1857.3	1371.2
35°	2298.5	2303.2	2258.5	2202.7	2159.5	2184.7	2178.4	2189.0	2146.8	2054.1	1494.5
37.5°	2398.0	2374.3	2326.4	2299.5	2276.9	2318.5	2372.2	2381.2	2389.0	2280.0	1637.7
40°	2414.3	2416.4	2388.5	2407.5	2379.1	2441.8	2566.6	2555.0	2587.1	2491.7	1793.0
42.5°	2391.2	2395.9	2406.9	2433.9	2502.3	2577.6	2762.9	2715.5	2754.5	2669.8	1944.1
45°	2353.3	2333.8	2347.5	2449.7	2568.1	2735.5	2942.5	2905.7	2893.0	2821.9	2124.2
47.5°	2172.1	2192.2	2234.8	2360.6	2538.6	2762.9	3069.9	3061.5	3099.4	3049.4	2287.9
50°	1920.9	1913.0	1995.2	2136.8	2366.4	2709.2	3063.1	3139.5	3221.0	3151.6	2361.2
52.5°	1438.6	1480.7	1551.3	1727.2	2054.7	2416.4	2913.6	3041.0	3107.3	3092.6	2302.2
55°	909.4	922.1	964.7	1173.7	1468.6	1939.3	2497.5	2793.0	2911.5	2966.7	2247.9
57.5°	441.8	418.1	470.2	638.2	848.3	1304.3	1926.2	2432.8	2690.3	2790.4	2130.0
60°	230.6	239.6	260.1	320.2	438.7	677.2	1200.6	1621.4	2014.7	2168.4	1614.5
62.5°	191.2	194.3	208.0	238.0	291.7	389.6	612.9	790.4	1027.4	1165.8	918.4
65°	162.1	163.7	178.5	198.6	232.7	274.3	315.5	330.2	399.6	410.2	326.5
67.5°	135.3	136.9	152.7	171.6	193.8	204.9	215.4	214.3	222.2	219.1	218.5
70°	104.3	105.9	122.2	142.2	153.2	146.9	179.6	187.0	190.1	192.8	197.0
72.5°	75.3	78.5	91.1	105.3	99.5	114.3	147.9	159.0	163.2	164.8	170.1
75°	54.7	55.8	59.0	54.7	63.2	79.5	104.3	118.0	123.2	124.8	132.7
77.5°	24.2	24.7	25.3	31.6	40.5	49.5	62.1	73.2	80.6	82.7	84.8
80°	12.6	13.2	16.3	21.6	28.9	36.3	45.2	51.6	56.3	56.9	59.0
82.5°	7.9	8.4	11.6	15.3	20.5	26.8	33.1	38.4	42.1	42.6	43.1
85°	3.7	4.7	6.8	9.5	13.7	17.4	17.9	15.3	16.3	16.8	15.8
87.5°	1.1	1.6	2.1	1.6	2.1	2.1	2.6	3.2	3.2	3.2	3.7
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°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	601.9	597.1	578.7	571.9	554.0	557.1	547.7	547.1	545.0	544.5	544.0
5°	616.6	601.9	579.8	562.9	552.9	551.9	545.0	545.0	547.1	548.7	545.0
7.5°	640.8	624.0	586.6	570.8	561.9	560.3	555.6	551.9	556.6	555.0	550.8
10°	668.8	639.2	599.8	586.1	571.3	567.7	567.7	569.2	561.4	564.0	559.8
12.5°	699.8	660.4	616.6	600.8	583.5	581.3	580.3	568.7	572.9	570.8	560.3
15°	739.3	684.6	638.2	611.3	596.6	587.1	573.5	571.3	568.7	563.5	558.7
17.5°	782.0	710.9	648.2	614.5	592.4	585.6	575.0	564.0	556.1	557.1	553.5
20°	818.3	735.1	651.9	617.6	589.2	576.1	559.8	552.9	544.5	544.0	543.5
22.5°	861.4	767.7	657.2	609.2	579.8	566.1	555.0	542.9	537.1	529.7	533.4
25°	913.1	780.4	658.3	604.5	572.9	548.7	542.9	529.7	527.6	517.1	519.2
27.5°	950.5	787.3	649.8	589.8	557.1	538.7	528.1	518.6	515.0	507.1	505.0
30°	1000.5	797.8	631.9	571.3	541.4	520.7	514.4	512.3	501.8	493.4	492.3
32.5°	1057.4	804.6	620.3	552.4	525.0	509.2	512.3	502.3	489.2	481.8	479.7
35°	1102.6	807.3	591.3	530.8	513.9	503.9	500.2	498.1	479.2	472.3	467.1
37.5°	1171.6	801.5	567.1	515.5	501.8	498.1	495.0	480.8	459.2	449.2	441.8
40°	1252.2	799.9	536.1	493.9	490.2	494.4	485.0	462.9	432.9	421.8	416.5
42.5°	1329.6	810.9	516.5	482.3	477.6	479.2	466.0	432.9	418.1	411.8	403.3
45°	1459.1	834.1	484.4	464.4	462.3	461.3	445.5	410.7	402.3	394.4	392.8
47.5°	1576.0	818.8	463.9	446.0	448.1	442.3	408.6	397.5	388.1	380.2	377.5
50°	1582.8	782.5	435.0	431.8	432.4	422.4	390.2	382.8	370.7	365.4	361.8
52.5°	1547.1	723.0	408.1	409.1	410.7	394.4	367.5	362.3	352.3	344.9	342.8
55°	1446.5	630.3	381.7	386.0	390.2	359.1	350.7	337.5	329.7	319.1	319.7
57.5°	1274.3	507.6	344.9	351.8	360.7	326.5	320.2	303.9	292.2	283.8	282.7
60°	854.1	361.2	289.6	292.2	312.3	298.6	298.1	281.7	265.9	258.5	254.3
62.5°	503.9	275.9	250.1	247.5	247.0	254.8	268.0	262.2	241.7	227.5	231.7
65°	263.8	238.5	232.7	223.8	218.5	216.4	226.4	229.1	215.4	200.1	199.1
67.5°	221.7	221.7	217.0	213.8	206.4	197.5	191.2	182.7	180.6	176.4	171.1
70°	201.7	207.0	205.4	198.0	191.7	181.7	165.3	151.6	138.5	133.7	136.9
72.5°	175.9	181.2	181.2	177.5	169.0	153.7	137.9	122.2	111.1	102.7	101.6
75°	135.3	137.9	144.3	140.1	129.0	119.5	103.2	86.9	76.4	68.5	66.9
77.5°	86.4	90.6	90.6	90.1	82.2	73.2	62.7	51.0	43.1	37.4	35.8
80°	57.4	60.0	62.1	60.0	54.7	47.9	40.0	32.1	26.3	21.6	20.5
82.5°	42.1	45.2	46.8	44.7	39.5	34.2	28.4	22.6	16.8	13.2	12.1
85°	16.3	16.8	18.9	22.6	22.1	21.6	17.4	12.6	9.5	6.8	6.3
87.5°	4.2	3.7	4.2	4.2	3.7	3.2	3.2	3.2	3.2	1.6	2.1
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)