

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: P526446

Luminaire Tested: **GALN-SA1B-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3550 lumens
Efficiency: N/A
Efficacy: 80.7 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

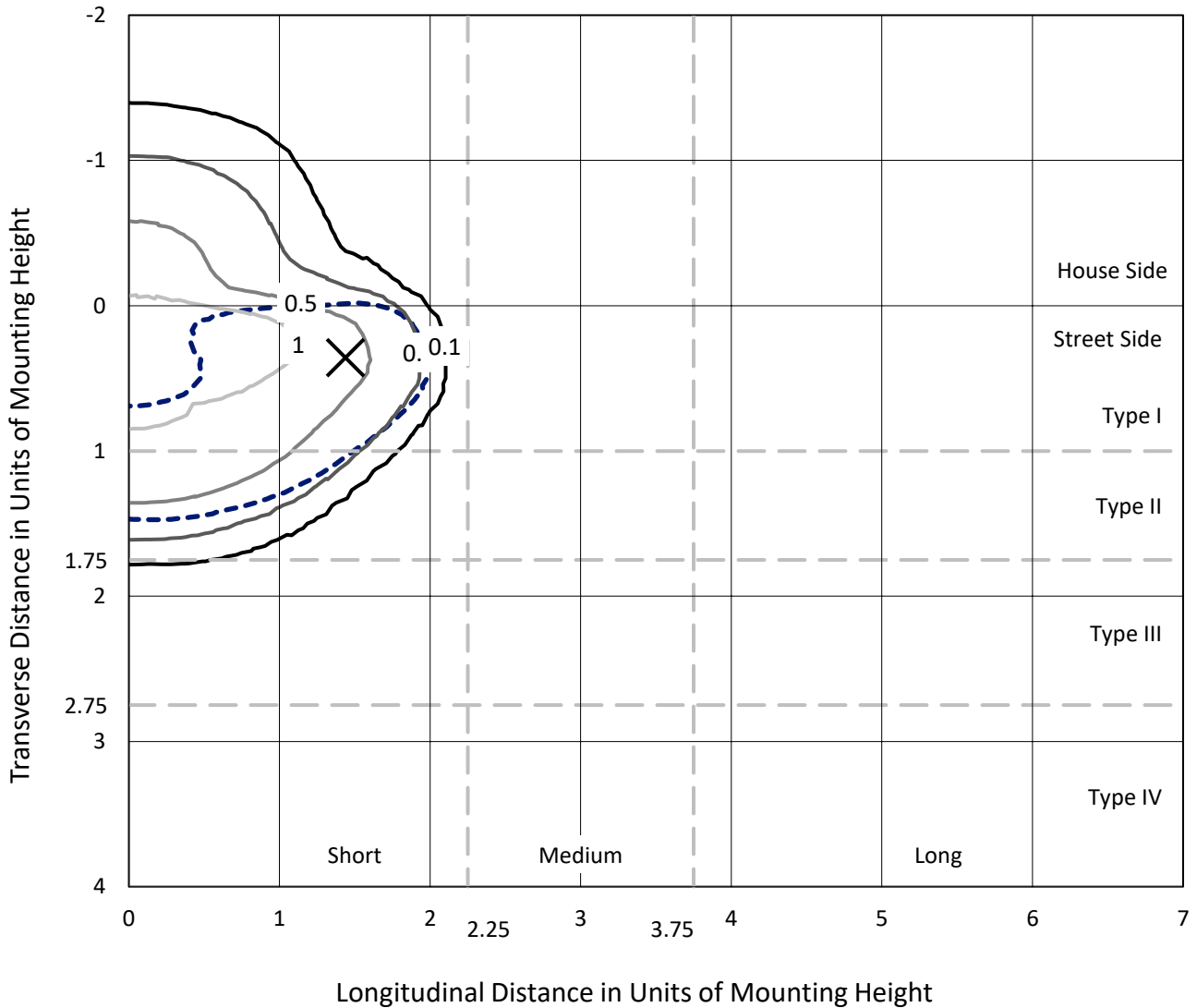
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

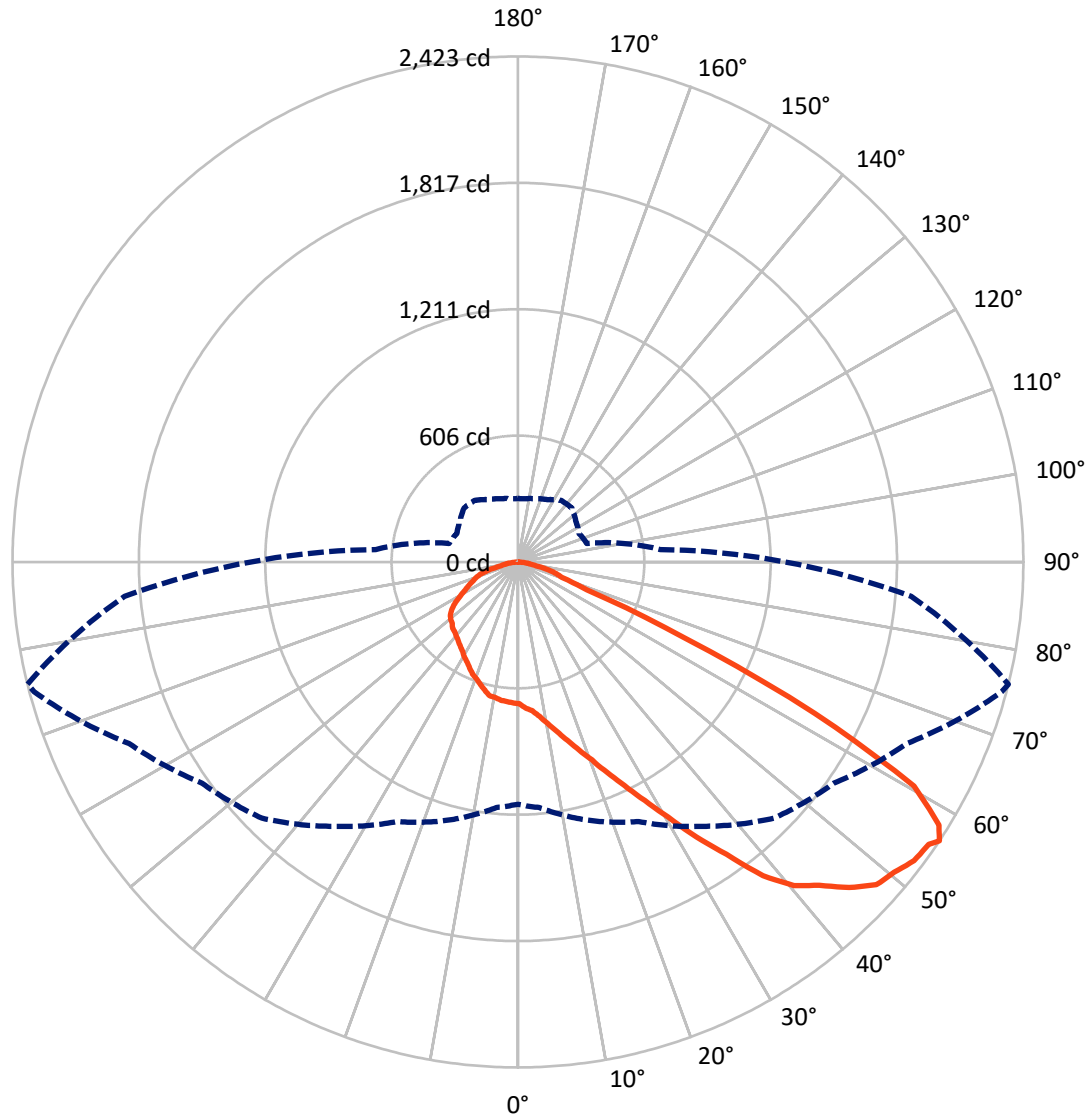
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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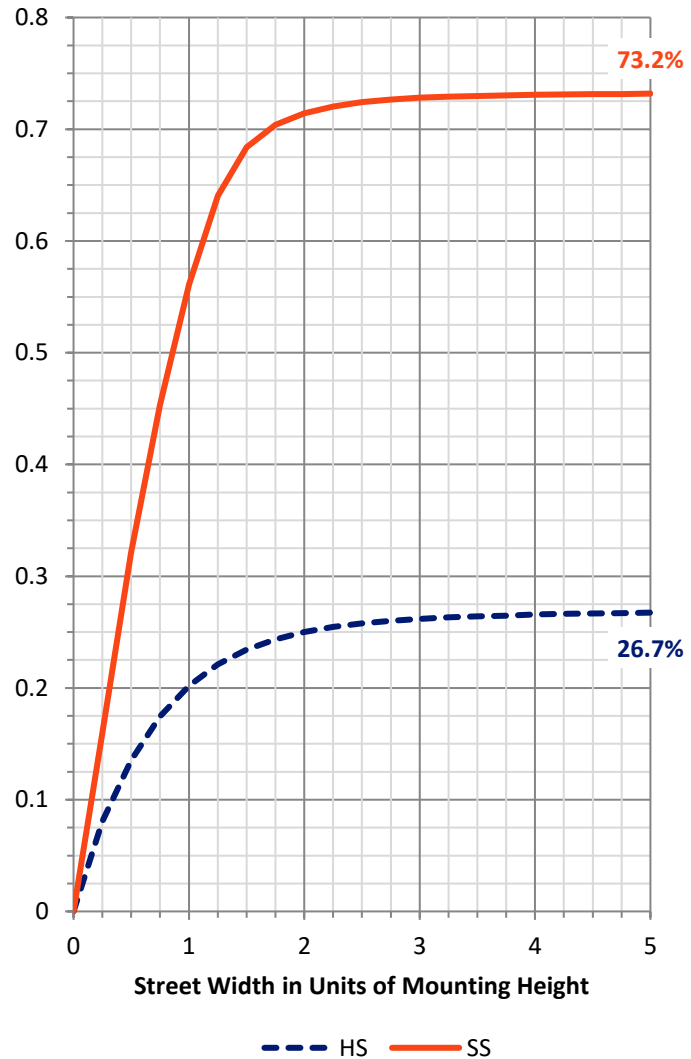
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	954.5	0.0	954.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2595.5	0.0	2595.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	3550.0	0.0	3550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.9
10°-20°	211.6	6.0
20°-30°	370.1	10.4
30°-40°	579.4	16.3
40°-50°	842.9	23.7
50°-60°	926.4	26.1
60°-70°	413.5	11.6
70°-80°	119.4	3.4
80°-90°	19.4	0.5
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°	3550.0	100.0
0°-180°	3550.0	100.0

Coefficient of Utilization

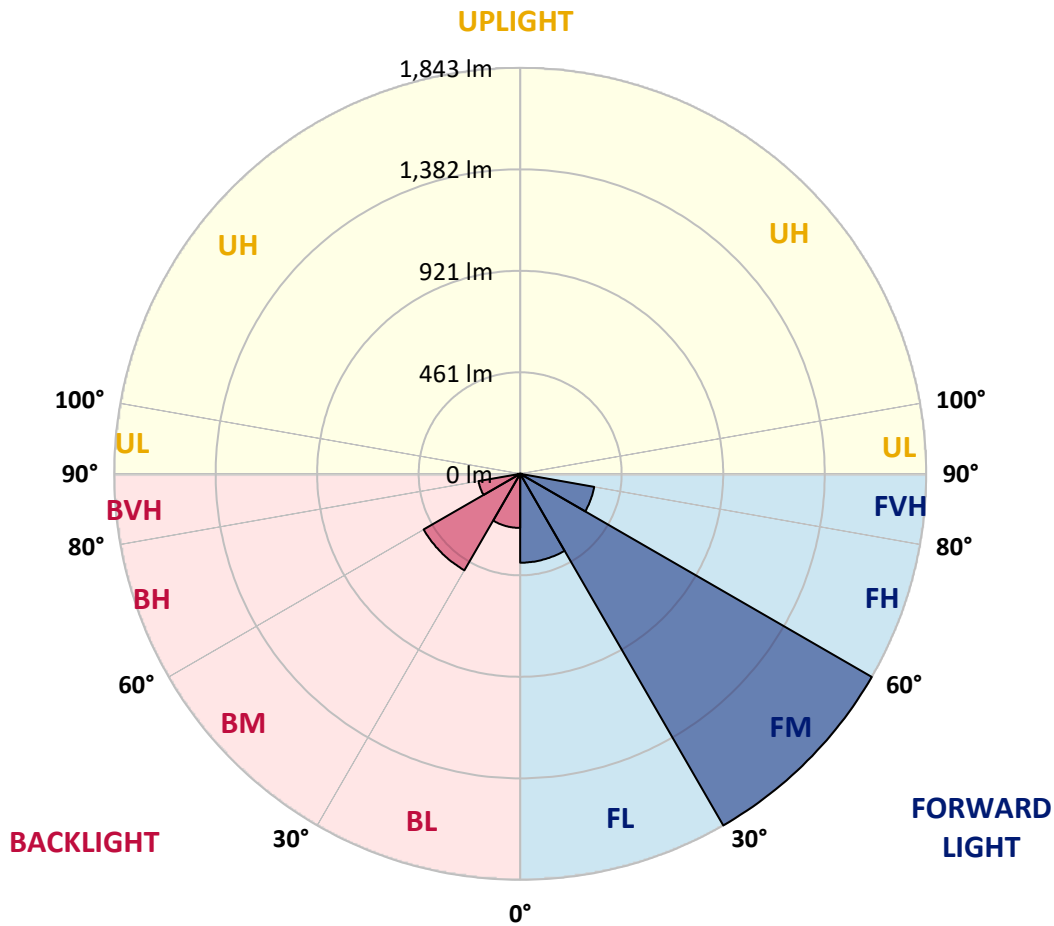


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.4	11.4			
FM (30°-60°)	1842.9	51.9			
FH (60°-80°)	340.9	9.6			G0/660
FVH (80°-90°)	8.3	0.2			G0/10
BL (0°-30°)	245.6	6.9	B1/500		
BM (30°-60°)	505.8	14.2	B1/1000		
BH (60°-80°)	192.0	5.4	B1/500		G1/500
BVH (80°-90°)	11.0	0.3			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°	75°	76°	85°
0°	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2
2.5°	748.3	736.3	735.4	732.2	734.0	725.7	717.0	705.5	693.5	700.9	683.4
5°	800.7	784.6	791.1	780.0	781.4	770.4	752.4	739.1	724.3	715.6	703.2
7.5°	819.1	820.5	825.1	823.3	814.1	814.1	802.1	778.6	752.9	747.8	727.1
10°	844.0	844.5	839.4	840.8	853.7	847.7	837.1	827.0	793.8	787.9	751.0
12.5°	852.7	844.5	852.7	860.1	875.3	883.6	881.3	873.9	838.5	834.3	780.5
15°	854.1	849.1	856.0	872.5	885.9	920.8	938.3	933.3	886.3	886.8	813.6
17.5°	847.7	854.6	857.3	871.6	902.4	935.1	985.7	992.6	954.0	948.0	855.5
20°	856.4	851.4	855.0	867.9	908.9	960.0	1026.2	1071.8	1017.5	1013.3	898.8
22.5°	890.0	883.1	882.2	890.5	919.9	972.9	1069.0	1150.9	1094.8	1097.1	952.6
25°	916.2	919.9	916.7	916.2	934.7	992.2	1125.6	1245.3	1199.7	1186.4	1016.1
27.5°	961.3	970.1	963.6	972.4	968.2	1021.2	1166.1	1349.8	1312.9	1295.0	1073.6
30°	1023.9	1028.5	1022.6	1022.6	1010.1	1061.7	1202.9	1458.8	1443.6	1419.2	1141.3
32.5°	1106.3	1113.2	1101.2	1094.3	1092.5	1122.0	1269.2	1566.5	1592.3	1571.6	1231.0
35°	1215.4	1211.2	1197.0	1190.5	1165.7	1214.5	1367.7	1690.3	1757.9	1721.1	1339.6
37.5°	1311.6	1305.1	1304.2	1268.3	1274.3	1314.3	1451.5	1784.2	1918.6	1908.0	1454.2
40°	1401.3	1407.3	1416.9	1396.7	1387.5	1431.7	1549.0	1856.0	2043.3	2039.1	1542.6
42.5°	1497.5	1492.0	1509.0	1492.0	1478.1	1540.7	1654.9	1905.7	2152.8	2118.7	1635.1
45°	1636.9	1619.4	1625.4	1626.8	1616.7	1639.7	1698.6	1941.6	2229.6	2226.0	1702.7
47.5°	1753.3	1753.8	1743.7	1735.9	1705.0	1728.0	1747.4	1964.1	2318.0	2312.0	1729.0
50°	1796.6	1790.6	1820.1	1837.1	1838.9	1792.0	1785.6	1976.5	2364.5	2338.2	1755.2
52.5°	1641.1	1646.6	1693.1	1794.3	1852.7	1857.8	1830.2	2002.3	2383.3	2377.8	1776.4
55°	1320.8	1347.4	1423.8	1540.7	1679.2	1831.6	1878.5	2029.0	2393.5	2388.9	1870.2
56°	1161.1	1181.8	1281.2	1372.8	1546.7	1736.3	1848.1	2057.5	2401.3	2422.9	1892.3
57.5°	934.7	958.6	1029.9	1133.9	1339.2	1555.0	1764.4	2022.6	2370.9	2379.2	1908.4
60°	584.4	586.7	672.3	740.9	885.4	1096.2	1346.5	1759.8	2194.2	2182.2	1714.2
62.5°	383.3	383.8	461.6	517.7	583.5	631.8	792.5	1167.1	1619.0	1597.8	1220.4
65°	269.2	275.2	335.5	410.5	437.2	411.9	406.8	615.3	904.3	873.9	655.8
67.5°	197.0	197.4	250.8	331.3	370.0	313.4	254.5	300.5	358.0	357.1	303.7
70°	130.2	135.8	176.7	247.6	291.8	251.7	208.0	214.9	227.8	227.8	226.0
72.5°	75.9	81.0	108.1	156.9	163.8	157.4	164.7	184.1	192.4	191.9	189.6
75°	43.3	45.6	51.5	65.3	81.5	96.2	121.0	139.4	147.7	152.8	146.8
77.5°	25.3	26.7	30.4	37.3	42.3	52.0	65.8	78.7	89.7	88.4	89.3
80°	13.3	13.3	17.0	22.1	29.5	36.8	43.7	51.1	57.1	58.4	59.8
82.5°	7.8	8.3	11.0	16.1	21.2	26.2	33.6	38.7	44.2	44.6	45.6
85°	4.1	4.6	6.9	10.6	14.3	16.1	16.6	15.6	17.0	16.1	18.4
87.5°	1.4	1.4	2.3	1.8	1.8	2.3	2.8	2.8	3.7	3.7	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°	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2
2.5°	682.9	682.9	675.1	660.4	658.1	652.1	646.6	646.1	642.0	638.3	636.4
5°	695.8	681.5	670.0	656.7	641.1	633.7	625.4	616.2	612.5	616.2	615.7
7.5°	710.5	698.6	664.1	639.2	621.3	613.9	604.7	595.0	596.0	596.0	589.5
10°	724.8	708.7	653.5	621.7	595.5	590.0	584.9	588.6	593.2	594.1	590.0
12.5°	748.7	712.4	648.4	604.2	587.7	575.7	578.9	589.0	598.7	596.0	599.2
15°	766.7	715.6	625.4	586.3	565.6	571.1	582.6	589.5	605.6	603.8	607.0
17.5°	784.2	717.4	602.9	562.4	553.6	568.8	577.5	597.3	602.4	613.4	617.6
20°	820.1	721.1	579.8	547.6	544.9	562.4	577.5	586.7	597.8	607.5	607.5
22.5°	838.5	719.3	564.7	528.3	537.0	548.1	561.9	577.5	577.5	586.7	587.2
25°	861.5	711.9	540.7	519.1	525.5	536.1	551.8	546.3	552.2	552.2	559.6
27.5°	887.7	696.3	520.0	502.5	515.4	526.9	529.2	525.5	518.6	517.7	515.0
30°	908.9	676.9	504.8	497.0	507.6	514.0	506.7	498.9	486.9	486.0	479.5
32.5°	937.9	653.0	486.0	483.2	495.2	495.6	493.3	481.4	463.9	456.5	449.1
35°	986.7	639.2	471.7	475.8	479.5	478.1	474.0	461.1	443.6	440.4	437.6
37.5°	1022.6	629.1	457.0	462.0	465.3	467.1	454.7	440.4	440.9	434.4	432.6
40°	1063.0	622.6	445.0	447.3	447.8	453.8	438.6	431.7	434.9	430.7	433.5
42.5°	1115.1	624.5	432.6	430.7	439.5	437.2	429.8	420.6	422.5	410.0	411.9
45°	1142.7	636.9	425.2	416.9	426.6	426.1	416.5	407.7	396.7	372.8	373.7
47.5°	1161.1	640.1	407.7	402.2	412.3	418.3	407.3	387.0	371.4	354.3	350.2
50°	1179.9	646.1	399.4	387.9	392.1	406.4	392.5	373.2	358.0	342.8	345.1
52.5°	1196.5	657.6	383.3	366.3	373.7	389.3	382.0	358.5	341.9	329.5	325.8
55°	1270.1	683.4	356.2	334.1	351.6	371.4	367.2	338.7	320.8	314.3	313.4
56°	1281.6	684.3	341.9	323.1	339.2	365.4	360.3	330.0	313.9	303.7	304.2
57.5°	1283.5	673.3	321.7	312.9	326.7	356.7	350.2	323.1	301.0	291.8	289.0
60°	1129.3	525.5	296.4	290.8	306.9	330.0	327.7	304.2	279.3	268.8	273.8
62.5°	769.9	385.2	276.6	275.7	283.9	306.5	300.5	279.3	258.6	251.7	248.5
65°	448.2	292.2	257.2	253.6	260.5	272.4	276.6	254.5	232.9	228.3	226.9
67.5°	264.6	241.6	232.4	226.4	224.1	231.5	234.7	221.8	200.2	193.7	199.3
70°	221.4	214.9	215.4	205.2	199.7	194.7	191.9	180.4	162.4	154.2	151.9
72.5°	191.0	188.2	186.4	177.2	172.1	160.6	148.6	137.1	123.8	116.9	117.3
75°	145.9	145.0	145.9	141.3	132.5	123.3	112.3	97.6	87.4	78.7	80.5
77.5°	87.0	89.7	91.1	89.3	85.6	77.3	70.4	60.7	51.1	44.2	43.3
80°	59.8	62.1	64.4	62.1	58.4	52.5	45.1	37.7	30.8	27.2	26.2
82.5°	45.6	47.9	49.2	46.9	42.3	35.9	30.8	25.8	20.2	16.6	15.6
85°	16.6	18.9	18.4	22.1	23.9	23.0	19.8	15.2	11.5	8.3	7.8
87.5°	4.6	4.1	4.6	4.6	4.6	4.1	3.7	3.7	3.7	2.3	1.8
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)