

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: P527413

Luminaire Tested: **GALN-SA2B-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5530 lumens
Efficiency: N/A
Efficacy: 67.4 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): 82
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

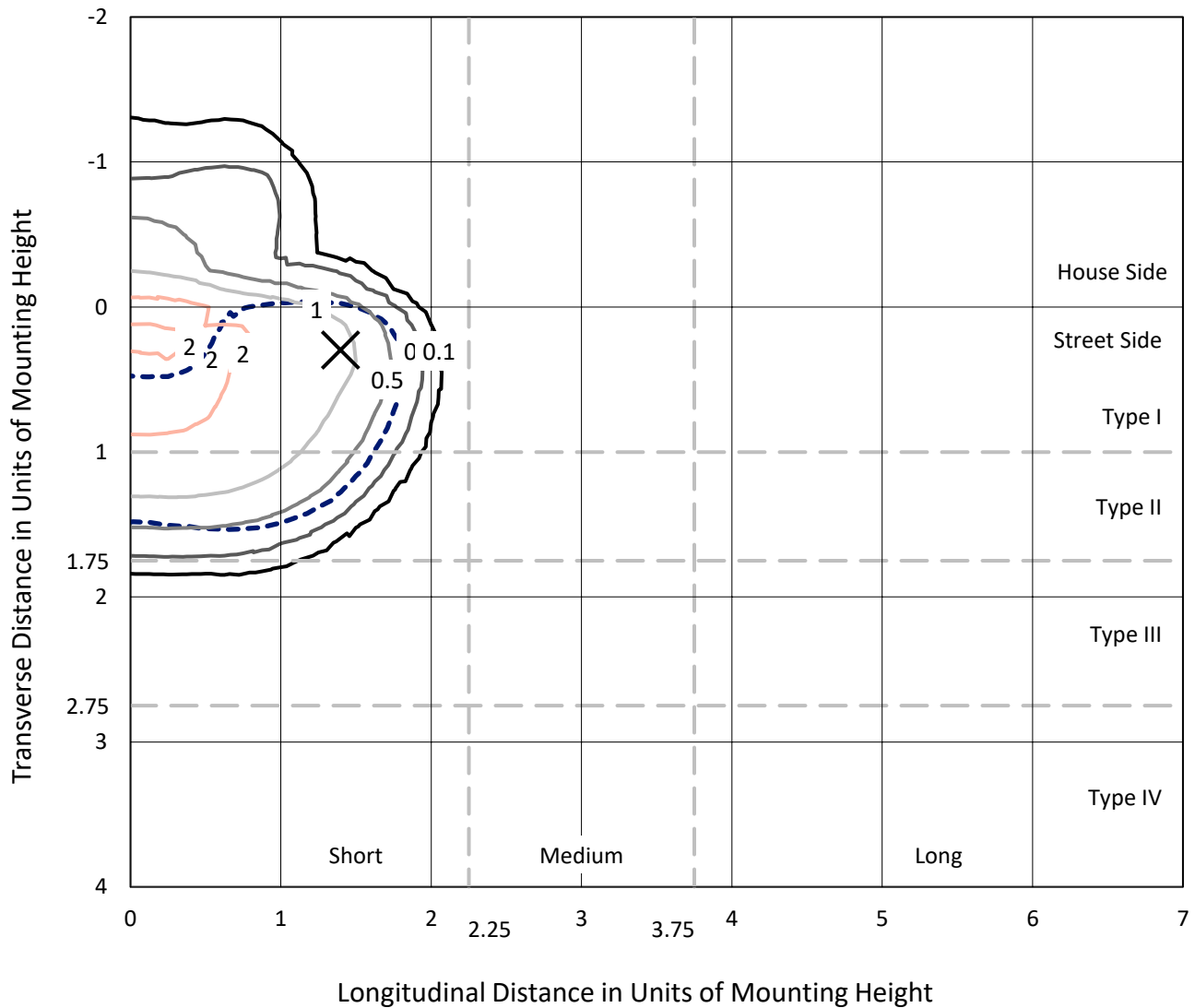


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

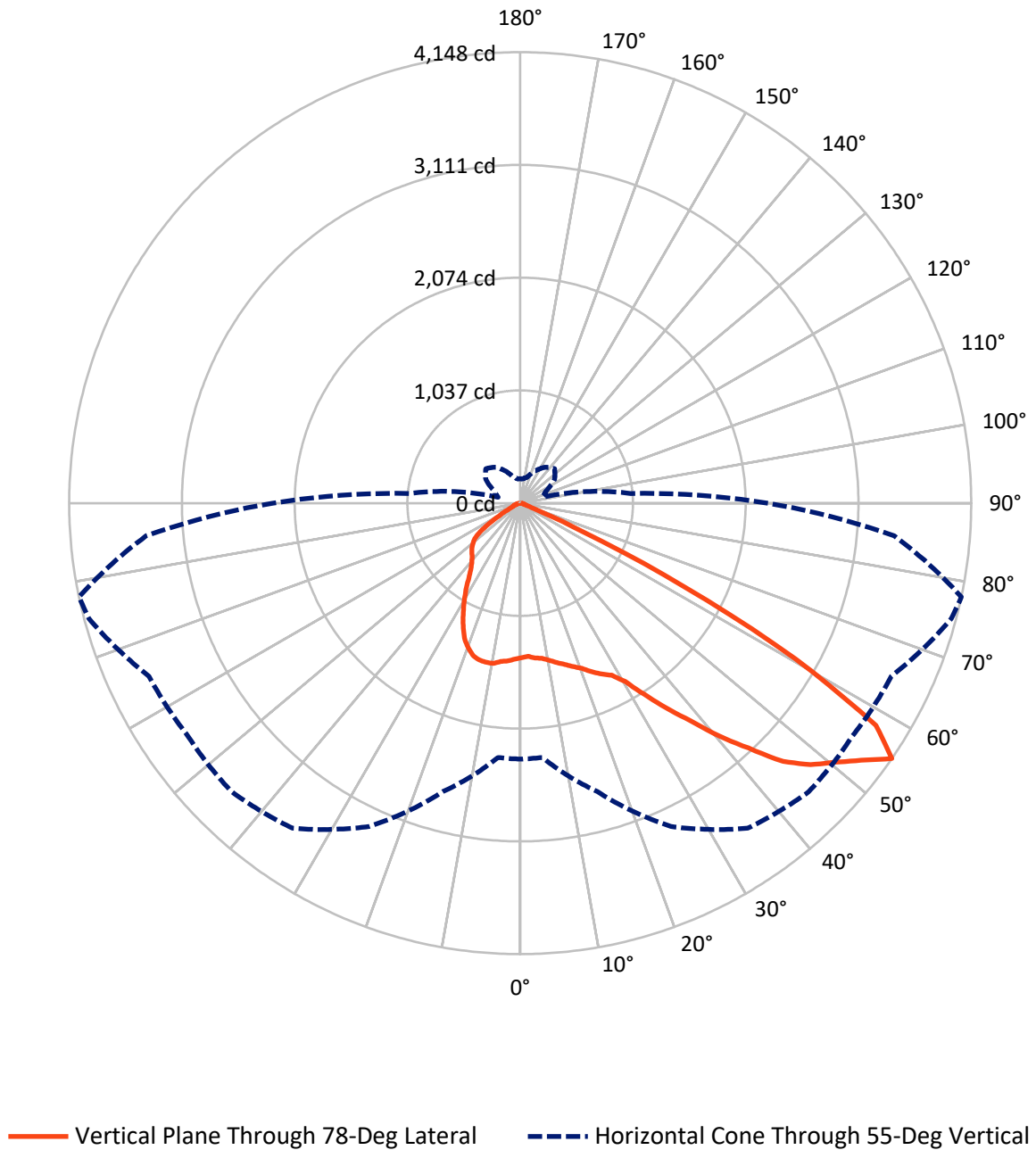


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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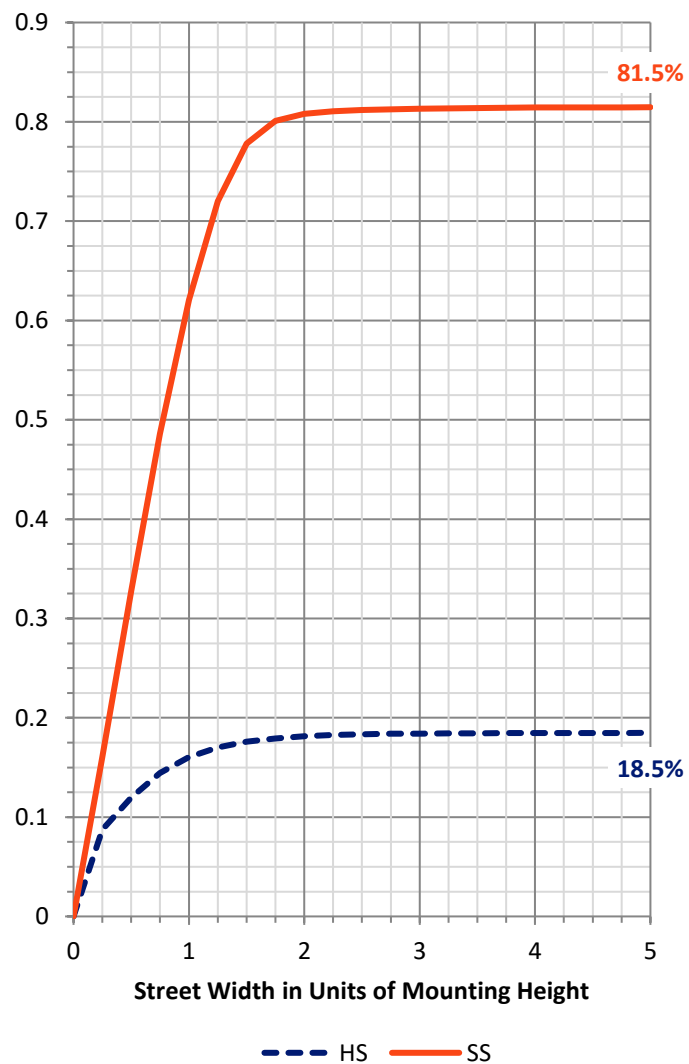
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.1	0.0	1027.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4502.9	0.0	4502.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	5530.0	0.0	5530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	2.3
10°-20°	335.5	6.1
20°-30°	588.1	10.6
30°-40°	969.7	17.5
40°-50°	1411.0	25.5
50°-60°	1598.9	28.9
60°-70°	457.1	8.3
70°-80°	35.5	0.6
80°-90°	7.4	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°	5530.0	100.0
0°-180°	5530.0	100.0

Coefficient of Utilization



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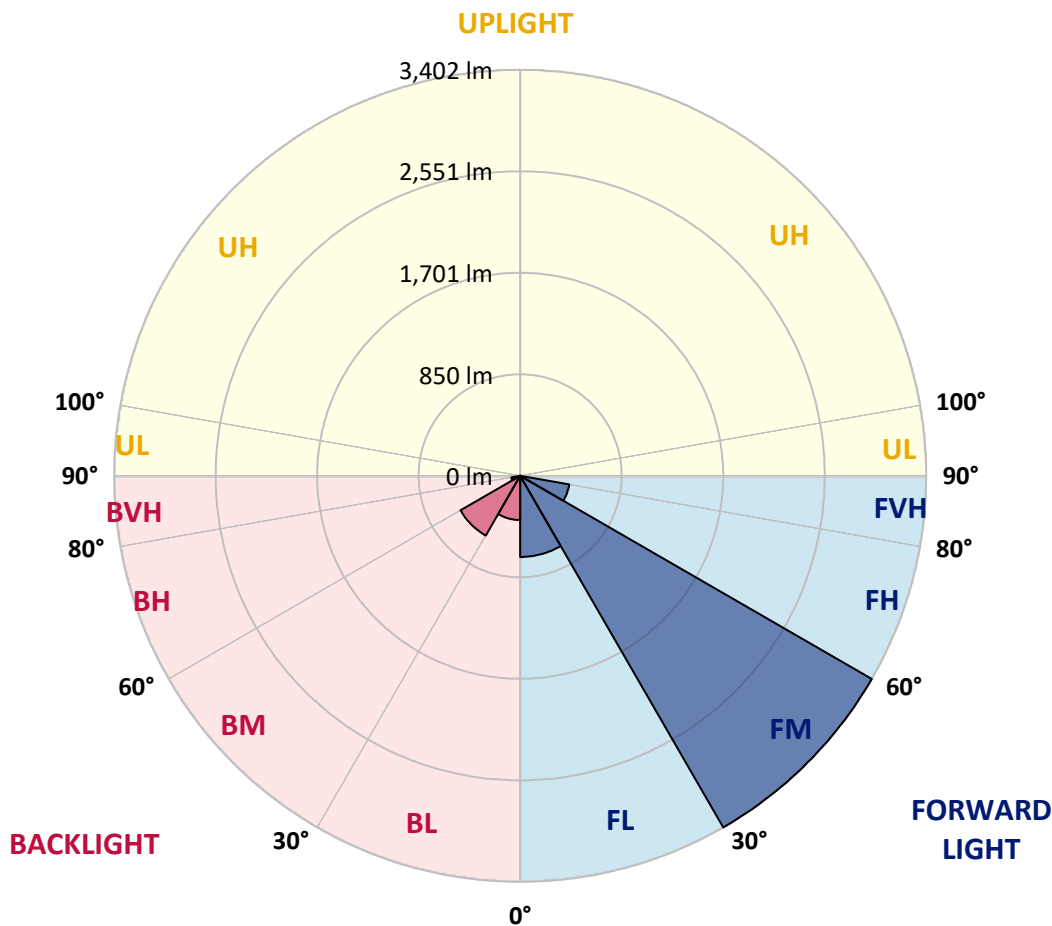
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	679.8	12.3			
FM	(30°-60°)	3401.8	61.5			
FH	(60°-80°)	417.7	7.6			G0/660
FVH	(80°-90°)	3.6	0.1			G0/10
BL	(0°-30°)	370.6	6.7	B1/500		
BM	(30°-60°)	577.8	10.4	B1/1000		
BH	(60°-80°)	75.0	1.4	B0/110		G0/110
BVH	(80°-90°)	3.8	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°	78°	85°
0°	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8
2.5°	1336.7	1349.6	1351.6	1367.4	1366.4	1393.1	1401.0	1402.0	1419.8	1410.9	1433.6
5°	1299.2	1292.2	1289.3	1317.0	1324.9	1348.6	1368.4	1380.2	1416.8	1429.7	1453.4
7.5°	1265.5	1265.5	1267.5	1292.2	1289.3	1319.9	1340.7	1377.3	1430.7	1441.5	1470.2
10°	1232.9	1221.1	1235.9	1261.6	1283.3	1297.2	1340.7	1375.3	1437.6	1469.2	1508.8
12.5°	1216.1	1222.0	1224.0	1242.8	1266.5	1308.1	1331.8	1389.1	1487.0	1505.8	1548.3
15°	1321.9	1310.0	1281.4	1264.6	1284.3	1304.1	1363.4	1421.8	1512.7	1539.4	1586.9
17.5°	1444.5	1434.6	1410.9	1365.4	1320.9	1357.5	1404.0	1457.4	1540.4	1580.0	1650.2
20°	1604.7	1588.9	1565.1	1476.1	1437.6	1398.0	1447.5	1510.8	1585.9	1621.5	1693.7
22.5°	1795.5	1795.5	1742.1	1634.3	1554.3	1516.7	1537.4	1574.0	1636.3	1684.8	1756.0
25°	1994.2	1988.3	1939.9	1828.1	1692.7	1648.2	1671.9	1697.6	1714.4	1741.1	1788.6
27.5°	2221.6	2187.0	2125.7	2002.1	1882.5	1796.5	1822.2	1799.5	1778.7	1792.5	1860.8
30°	2375.9	2397.6	2319.5	2200.9	2088.2	1992.3	1997.2	1977.4	1882.5	1902.3	1942.8
32.5°	2536.0	2549.9	2506.4	2441.1	2328.4	2216.7	2176.2	2159.3	2088.2	2097.1	2057.5
35°	2669.5	2696.2	2657.7	2629.0	2596.4	2506.4	2394.7	2449.0	2334.3	2312.6	2209.8
37.5°	2792.1	2784.2	2829.7	2800.0	2793.1	2729.8	2607.2	2618.1	2541.0	2536.0	2417.4
40°	2901.9	2903.8	2966.1	2980.0	2952.3	2839.6	2661.6	2747.6	2809.9	2815.8	2663.6
42.5°	2992.8	3019.5	3072.9	3184.6	3143.1	2955.3	2718.0	2811.9	3043.3	3079.8	2896.9
45°	3071.9	3126.3	3192.5	3292.4	3268.7	3119.4	2858.4	2944.4	3292.4	3388.3	3116.4
47.5°	3076.9	3148.1	3220.2	3368.5	3398.2	3207.4	3003.7	3154.0	3490.1	3594.0	3276.6
50°	3057.1	3094.7	3239.0	3400.2	3467.4	3350.7	3207.4	3330.0	3682.0	3747.2	3357.7
52.5°	2822.8	2851.4	3141.1	3429.8	3592.0	3512.9	3477.3	3575.2	3877.7	3926.2	3433.8
55°	2353.1	2348.2	2746.6	3280.5	3649.3	3753.1	3731.4	3766.0	4104.1	4147.6	3452.6
57.5°	1609.6	1699.6	2043.7	2731.8	3298.3	3696.8	3719.5	3662.2	3840.2	3857.0	3009.6
60°	868.1	905.7	1182.5	1823.2	2511.3	3012.6	3071.9	2968.1	2954.3	2906.8	2148.5
62.5°	345.1	363.8	521.1	902.7	1368.4	1831.1	1958.6	1916.1	1825.2	1700.6	1112.3
65°	164.1	176.0	259.0	422.2	607.1	763.3	890.8	930.4	686.2	617.9	366.8
67.5°	111.7	120.6	188.8	241.2	216.5	226.4	294.6	273.9	161.2	137.4	101.8
70°	85.0	91.0	151.3	164.1	96.9	68.2	76.1	71.2	66.2	67.2	66.2
72.5°	60.3	65.3	110.7	96.9	42.5	31.6	40.5	48.4	48.4	48.4	47.5
75°	36.6	41.5	64.3	37.6	16.8	16.8	25.7	32.6	34.6	35.6	33.6
77.5°	18.8	23.7	21.8	10.9	10.9	12.9	18.8	22.7	24.7	24.7	23.7
80°	4.0	4.0	4.0	5.9	10.9	13.8	18.8	20.8	23.7	23.7	21.8
82.5°	0.0	1.0	3.0	5.9	9.9	12.9	17.8	20.8	23.7	24.7	22.7
85°	0.0	1.0	2.0	4.0	6.9	7.9	6.9	5.9	5.9	5.9	5.9
87.5°	0.0	0.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8
2.5°	1435.6	1438.6	1433.6	1432.6	1428.7	1440.6	1411.9	1405.0	1422.8	1405.9	1409.9
5°	1454.4	1461.3	1452.4	1437.6	1415.8	1382.2	1353.5	1316.0	1298.2	1285.3	1283.3
7.5°	1468.2	1473.2	1464.3	1416.8	1351.6	1266.5	1203.3	1156.8	1120.2	1109.3	1091.5
10°	1524.6	1525.6	1481.1	1376.3	1248.7	1137.0	1040.1	968.9	932.4	909.6	899.7
12.5°	1562.2	1560.2	1470.2	1296.2	1126.1	977.8	867.1	781.1	747.5	736.6	729.7
15°	1609.6	1598.7	1444.5	1214.1	967.9	807.8	707.9	648.6	645.6	638.7	645.6
17.5°	1647.2	1616.5	1406.9	1064.8	816.7	665.4	600.1	604.1	612.0	618.9	619.9
20°	1708.5	1645.2	1320.9	934.3	676.3	570.5	569.5	587.3	607.1	615.0	622.9
22.5°	1755.0	1657.1	1229.0	794.9	561.6	531.9	548.7	575.4	590.3	598.2	610.0
25°	1771.8	1624.5	1106.4	655.5	506.2	514.1	539.8	557.6	576.4	585.3	580.4
27.5°	1788.6	1607.6	960.0	539.8	476.6	502.3	524.0	541.8	547.7	559.6	567.5
30°	1829.1	1549.3	828.5	466.7	461.7	494.4	510.2	516.1	531.9	538.8	538.8
32.5°	1861.7	1526.6	689.1	432.1	459.8	498.3	500.3	500.3	502.3	497.3	495.3
35°	1929.0	1448.5	564.6	411.3	458.8	499.3	504.2	487.4	442.0	424.2	419.2
37.5°	2012.0	1398.0	472.6	406.4	465.7	511.2	519.1	455.8	396.5	367.8	362.9
40°	2112.9	1362.4	412.3	404.4	481.5	538.8	515.1	431.1	354.0	312.4	310.5
42.5°	2230.5	1329.8	371.8	403.4	501.3	567.5	511.2	410.3	310.5	282.8	286.7
45°	2324.5	1312.0	344.1	396.5	508.2	584.3	514.1	373.7	292.7	274.9	276.8
47.5°	2397.6	1274.4	321.3	384.6	507.2	590.3	487.4	358.9	283.8	288.7	293.6
50°	2399.6	1224.0	292.7	358.9	492.4	579.4	456.8	345.1	281.8	302.5	312.4
52.5°	2372.9	1152.8	262.0	322.3	457.8	541.8	429.1	339.1	272.9	270.9	282.8
55°	2278.0	1019.4	210.6	261.0	386.6	446.9	404.4	328.3	246.2	223.4	225.4
57.5°	1841.0	730.7	155.2	186.9	273.9	327.3	364.8	323.3	221.5	189.8	190.8
60°	1140.0	414.3	113.7	127.5	169.1	198.7	295.6	300.6	197.7	160.2	158.2
62.5°	585.3	204.7	88.0	90.0	103.8	116.7	202.7	252.1	179.0	152.3	152.3
65°	195.8	100.8	77.1	69.2	69.2	72.2	122.6	175.0	151.3	127.5	127.5
67.5°	84.0	75.1	67.2	60.3	55.4	52.4	69.2	101.8	112.7	96.9	92.9
70°	65.3	63.3	58.3	50.4	43.5	39.5	40.5	52.4	64.3	62.3	60.3
72.5°	48.4	48.4	46.5	39.5	33.6	28.7	26.7	27.7	30.7	31.6	32.6
75°	33.6	34.6	34.6	30.7	24.7	20.8	17.8	14.8	11.9	9.9	8.9
77.5°	22.7	23.7	25.7	22.7	18.8	13.8	10.9	7.9	4.9	2.0	2.0
80°	19.8	22.7	24.7	22.7	19.8	14.8	10.9	5.9	3.0	0.0	0.0
82.5°	20.8	22.7	25.7	21.8	18.8	13.8	10.9	6.9	3.0	1.0	0.0
85°	4.9	4.9	5.9	6.9	8.9	9.9	7.9	4.9	3.0	1.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	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)