

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: P940084

Luminaire Tested: **GALN-SB3A-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9116 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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

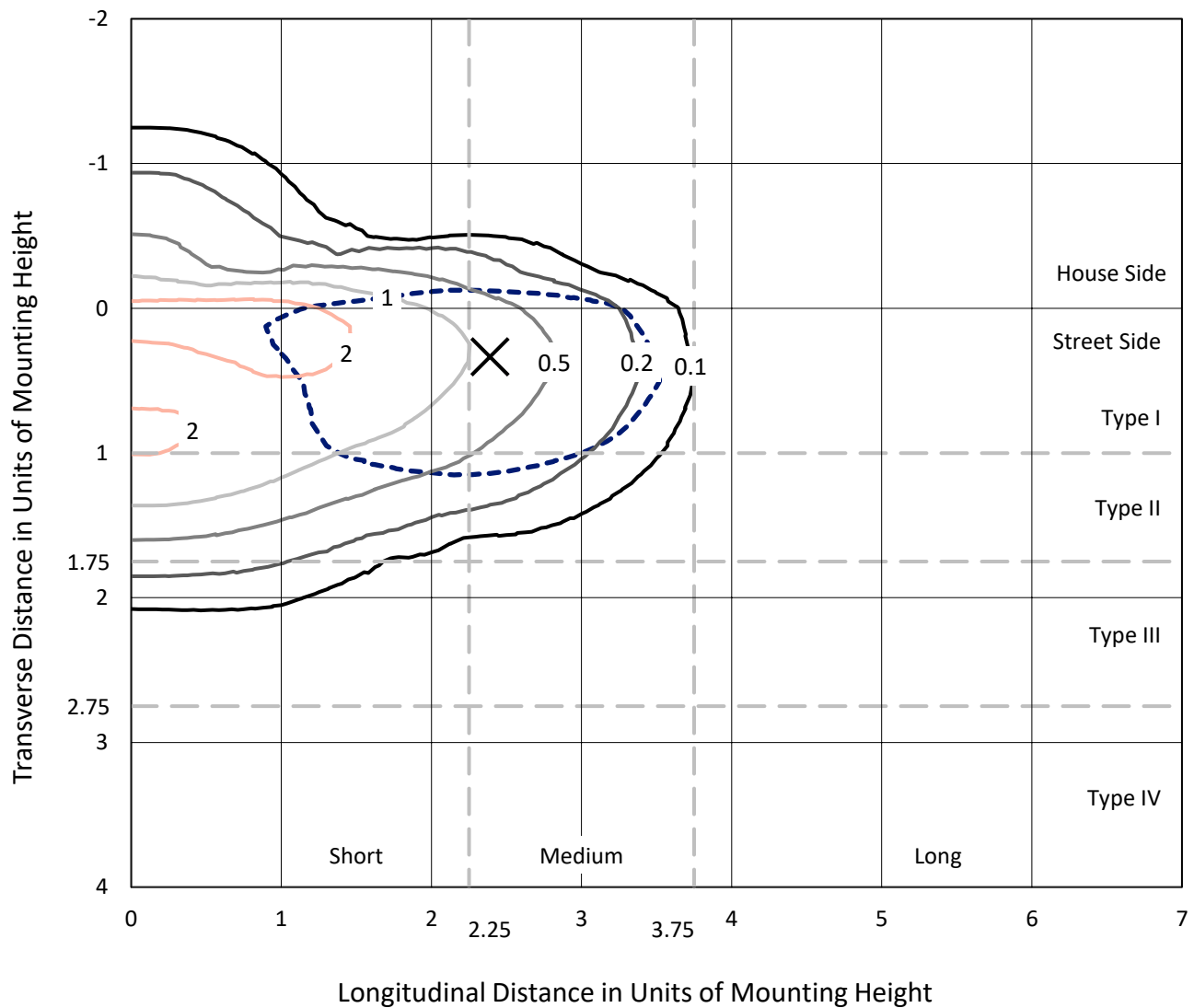


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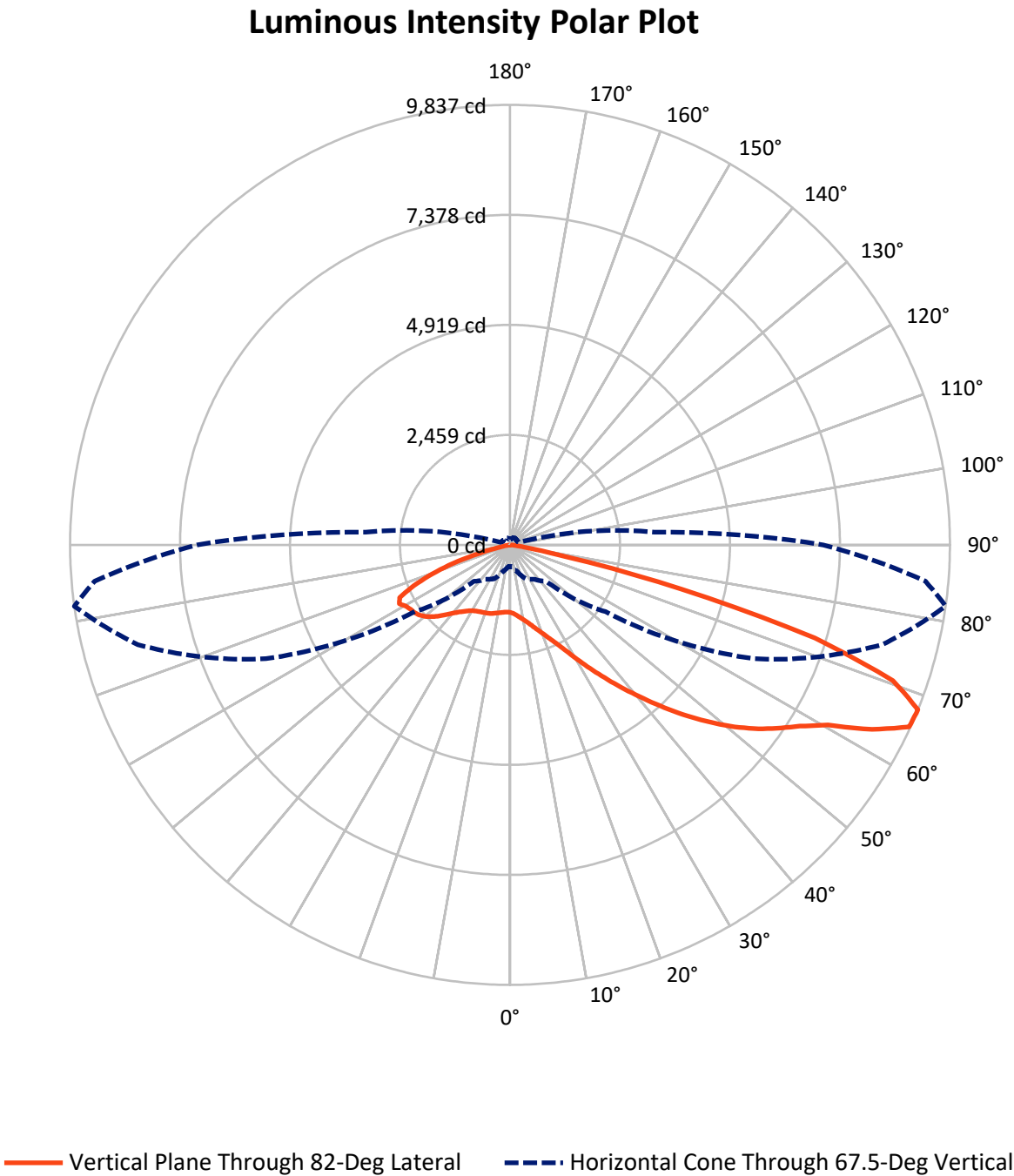
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type II - Medium - N/A

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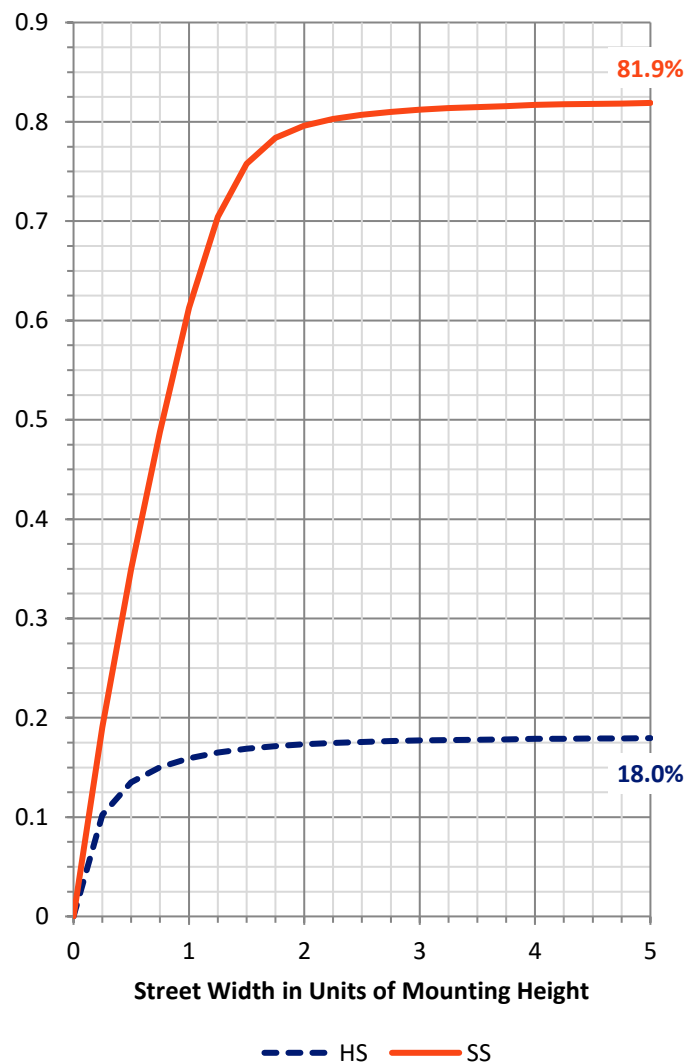
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1651.3	0.0	1651.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7464.7	0.0	7464.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	9116.0	0.0	9116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.5
10°-20°	349.6	3.8
20°-30°	560.0	6.1
30°-40°	990.3	10.9
40°-50°	1735.0	19.0
50°-60°	2314.1	25.4
60°-70°	2154.3	23.6
70°-80°	826.8	9.1
80°-90°	51.4	0.6
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°	9116.0	100.0
0°-180°	9116.0	100.0

Coefficient of Utilization



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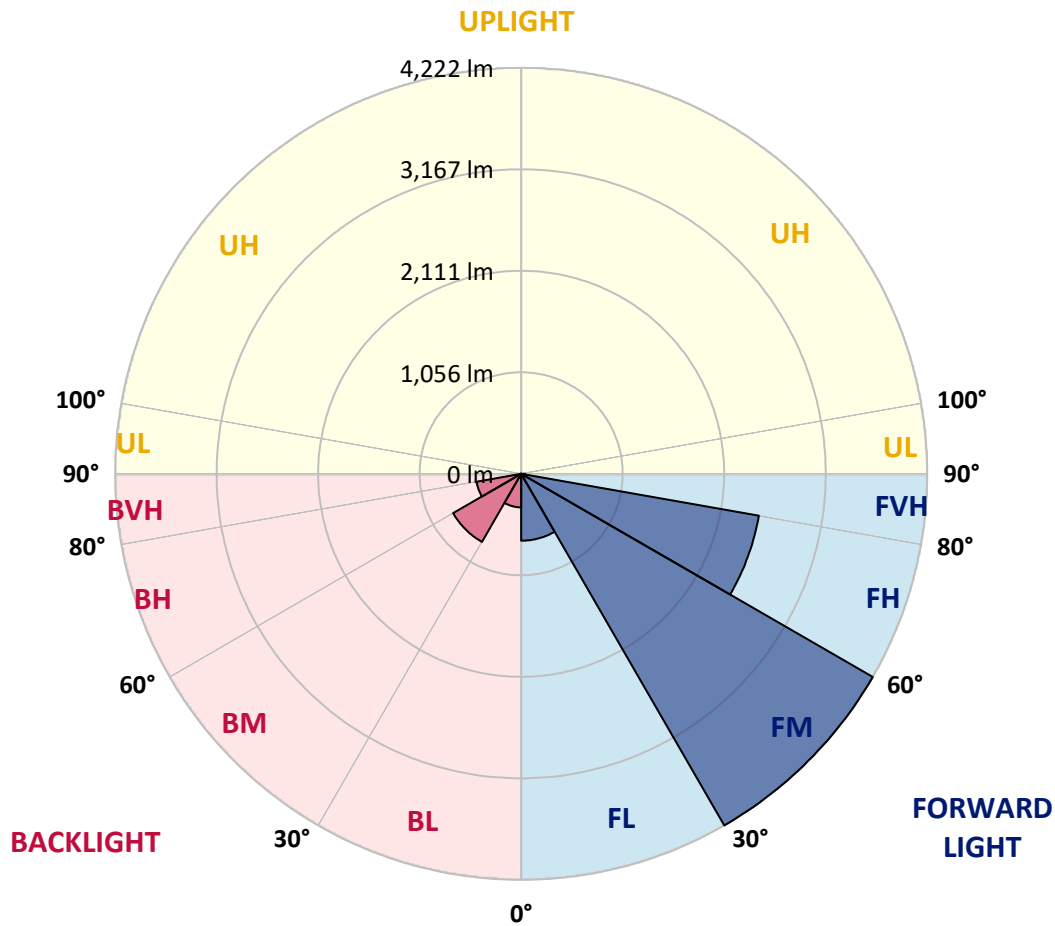
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	695.4	7.6			
FM	(30°-60°)	4222.2	46.3			
FH	(60°-80°)	2509.8	27.5			G2/5000
FVH	(80°-90°)	37.3	0.4			G1/100
BL	(0°-30°)	348.7	3.8	B1/500		
BM	(30°-60°)	817.2	9.0	B1/1000		
BH	(60°-80°)	471.3	5.2	B1/500		G1/500
BVH	(80°-90°)	14.0	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2
2.5°	1596.2	1605.4	1600.1	1597.5	1592.9	1586.3	1581.1	1564.7	1547.6	1536.5	1532.5
5°	1628.4	1637.5	1636.9	1639.5	1642.8	1644.8	1643.4	1625.1	1600.8	1581.8	1570.6
7.5°	1600.8	1611.3	1619.8	1632.9	1655.9	1680.2	1692.0	1688.1	1663.1	1636.9	1623.1
10°	1522.7	1533.8	1554.2	1585.0	1633.6	1686.1	1730.1	1750.4	1734.7	1705.8	1686.8
12.5°	1379.6	1390.8	1430.8	1497.7	1579.1	1670.4	1754.4	1808.8	1812.8	1783.9	1761.6
15°	1218.8	1230.0	1272.6	1356.6	1480.7	1627.0	1767.5	1870.5	1905.3	1880.4	1853.5
17.5°	1119.0	1128.9	1161.0	1228.6	1357.9	1540.4	1762.9	1936.2	2015.6	1995.9	1963.7
20°	1088.8	1097.4	1112.5	1159.7	1267.4	1450.5	1732.7	1997.9	2134.4	2123.2	2087.1
22.5°	1121.0	1128.9	1133.5	1154.5	1222.1	1391.4	1694.6	2060.9	2272.2	2273.5	2229.5
25°	1195.2	1203.1	1197.8	1210.9	1240.5	1373.0	1680.2	2135.0	2445.5	2459.9	2410.0
27.5°	1317.3	1317.9	1305.4	1304.8	1309.4	1400.6	1695.3	2214.5	2664.0	2690.9	2629.3
30°	1562.1	1552.2	1504.3	1452.5	1428.8	1483.3	1737.3	2308.3	2922.0	2969.9	2892.4
32.5°	1939.5	1925.0	1837.1	1713.0	1588.3	1616.5	1812.8	2415.3	3202.9	3289.5	3195.0
35°	2349.0	2345.1	2253.2	2068.7	1850.8	1806.2	1935.5	2555.7	3509.4	3647.2	3535.0
37.5°	2729.7	2727.7	2675.2	2458.0	2192.8	2070.7	2132.4	2739.5	3837.6	4037.1	3904.5
40°	3077.5	3083.4	3030.9	2836.7	2569.5	2410.0	2400.2	2966.6	4202.5	4461.7	4304.2
42.5°	3378.1	3384.7	3331.5	3187.8	2941.7	2785.5	2729.0	3244.9	4558.9	4917.9	4731.5
45°	3582.2	3622.9	3615.1	3500.2	3323.6	3161.5	3124.1	3594.1	4965.1	5401.6	5183.0
47.5°	3640.0	3677.4	3736.5	3752.2	3644.6	3485.1	3529.7	4014.8	5376.0	5886.0	5637.2
50°	3497.6	3532.4	3655.1	3818.5	3893.3	3844.1	3924.2	4465.7	5796.7	6369.0	6082.9
52.5°	3216.7	3252.1	3407.0	3665.6	3970.8	4125.7	4320.0	4910.0	6204.3	6826.5	6504.9
55°	2810.4	2847.8	3046.7	3339.4	3823.1	4241.9	4650.1	5353.7	6577.7	7238.0	6885.5
57.5°	2257.8	2285.3	2492.1	2901.6	3451.6	4126.3	4893.6	5838.0	6929.5	7642.3	7262.9
60°	1471.5	1495.8	1736.0	2192.8	2836.0	3740.4	4942.2	6378.2	7396.8	8168.0	7771.6
62.5°	978.6	995.0	1137.4	1472.8	1997.2	2999.4	4658.0	6809.4	8082.0	9082.9	8643.9
65°	671.4	687.8	830.3	1063.9	1290.3	1984.1	3840.8	6752.3	8702.9	9809.5	9290.3
67.5°	479.1	492.9	613.7	834.2	934.0	1152.5	2603.7	6022.5	8613.7	9837.1	9325.1
70°	343.3	351.1	450.9	649.8	742.3	692.4	1447.9	4606.1	7541.9	9083.6	8615.0
72.5°	240.2	242.8	313.1	494.9	597.9	505.4	689.1	3071.0	5704.2	7129.7	6678.8
75°	162.8	166.1	210.7	362.9	479.8	385.9	364.9	1646.7	3348.6	3946.5	3537.6
77.5°	99.8	101.1	135.9	248.1	359.0	294.0	235.0	697.7	1295.6	1272.0	1084.3
80°	56.4	56.4	86.6	154.2	244.8	189.7	164.7	296.7	410.2	360.3	317.7
82.5°	31.5	32.2	63.0	95.8	162.1	112.2	90.6	137.2	177.2	156.9	136.5
85°	13.1	14.4	38.7	45.3	77.4	55.8	36.8	57.8	65.6	58.4	42.7
87.5°	1.3	2.0	11.8	8.5	9.2	11.2	5.3	11.2	9.2	9.2	6.6
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°	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2
2.5°	1520.1	1510.2	1485.3	1456.4	1418.3	1399.9	1375.0	1357.9	1343.5	1344.8	1331.7
5°	1549.6	1524.7	1468.9	1399.3	1312.7	1251.0	1185.3	1140.0	1103.3	1095.4	1077.7
7.5°	1590.3	1550.9	1453.1	1327.8	1181.4	1070.5	971.4	907.7	862.4	848.0	833.5
10°	1642.8	1585.7	1432.8	1237.8	1027.2	886.0	779.7	729.8	699.0	688.5	680.6
12.5°	1703.8	1625.7	1405.9	1128.2	868.3	732.5	664.9	639.9	630.1	626.8	624.8
15°	1780.6	1675.6	1365.2	998.3	733.8	638.6	609.7	606.4	607.8	606.4	605.8
17.5°	1871.8	1730.1	1298.9	864.4	643.2	590.7	580.2	582.8	586.1	585.4	584.1
20°	1971.6	1783.9	1214.2	745.6	581.5	556.6	550.7	553.3	555.9	554.6	553.9
22.5°	2085.2	1841.7	1120.4	653.0	540.2	525.1	518.5	519.2	519.2	516.5	515.2
25°	2221.0	1905.3	1021.9	587.4	508.7	496.8	489.0	486.3	482.4	474.5	473.2
27.5°	2383.1	1972.9	927.4	541.5	483.7	472.6	463.4	456.8	447.0	433.8	432.5
30°	2565.6	2055.0	847.3	512.6	464.0	452.9	442.4	432.5	418.1	401.7	400.4
32.5°	2780.2	2142.9	788.9	493.6	446.3	434.5	422.0	410.2	394.5	378.0	378.7
35°	3036.2	2249.2	754.8	480.4	432.5	416.8	403.0	389.9	378.0	363.6	362.3
37.5°	3313.8	2362.1	744.3	473.9	423.3	399.0	383.3	374.1	372.8	364.3	363.6
40°	3617.7	2496.0	752.2	469.9	413.5	382.0	364.9	362.9	366.2	351.1	351.8
42.5°	3939.3	2654.9	765.3	465.3	399.7	364.9	348.5	348.5	345.9	324.9	324.9
45°	4287.1	2838.0	778.4	454.2	383.3	347.9	335.4	330.8	319.6	299.3	298.6
47.5°	4637.6	3024.4	788.3	433.8	363.6	333.4	322.3	311.8	295.3	277.0	276.3
50°	4970.4	3191.7	777.7	403.6	341.3	319.6	307.8	293.4	275.7	263.2	261.2
52.5°	5267.7	3336.8	733.1	368.2	317.7	305.2	294.7	279.6	265.2	252.0	250.7
55°	5526.3	3454.3	654.4	334.7	296.7	292.7	282.2	263.2	243.5	232.3	231.0
57.5°	5774.4	3543.5	555.9	307.2	277.6	278.9	263.2	246.1	227.7	215.9	214.6
60°	6104.5	3663.0	456.1	281.6	257.3	261.2	244.2	231.7	208.7	193.6	191.6
62.5°	6632.2	3848.7	362.3	250.1	233.7	235.0	227.7	212.7	185.1	167.4	166.1
65°	7050.9	3780.5	285.5	215.9	206.7	208.7	208.7	192.3	162.8	142.4	140.5
67.5°	7003.7	3237.0	227.7	182.5	181.1	182.5	187.1	173.3	144.4	128.0	125.4
70°	6451.7	2574.8	182.5	151.6	157.5	154.2	167.4	158.2	130.0	113.5	111.6
72.5°	5264.4	1854.8	139.1	125.4	120.8	126.0	151.0	142.4	108.3	89.9	87.9
75°	3076.2	989.7	103.7	99.1	87.3	105.0	133.9	121.4	82.7	66.3	64.3
77.5°	1001.6	345.2	76.1	72.9	65.0	84.7	114.2	102.4	67.6	52.5	50.5
80°	268.4	104.4	51.8	47.9	42.0	63.0	90.6	81.4	48.6	34.1	33.5
82.5°	107.6	44.0	30.2	26.9	23.0	43.3	71.5	65.6	36.1	21.7	21.7
85°	34.8	14.4	11.2	8.5	10.5	26.9	42.7	44.6	25.6	11.2	8.5
87.5°	4.6	2.0	2.0	2.6	2.0	4.6	13.1	12.5	7.2	1.3	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)