

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: P947364

Luminaire Tested: **GALN-SB2D-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19226 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147.6
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



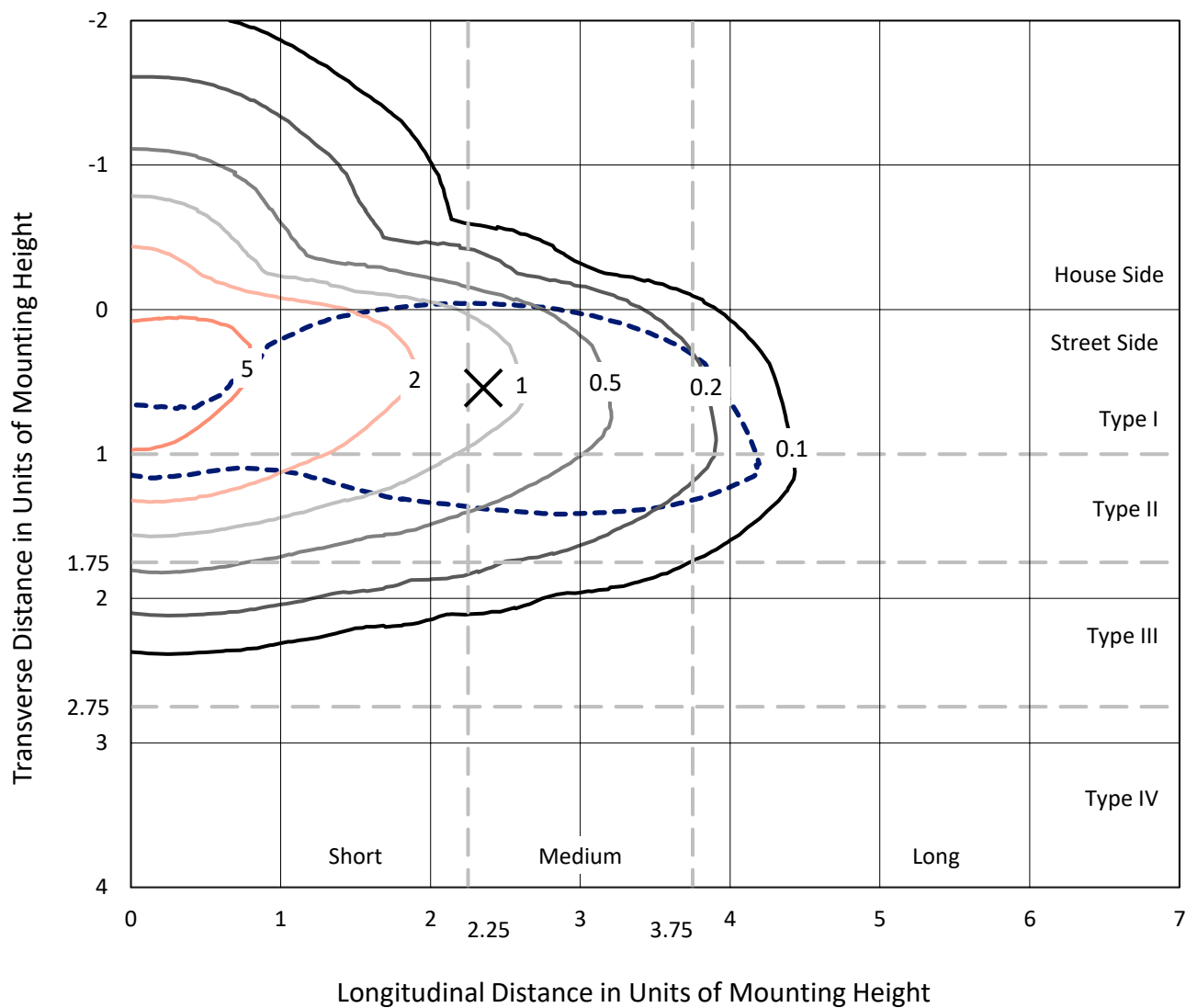
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



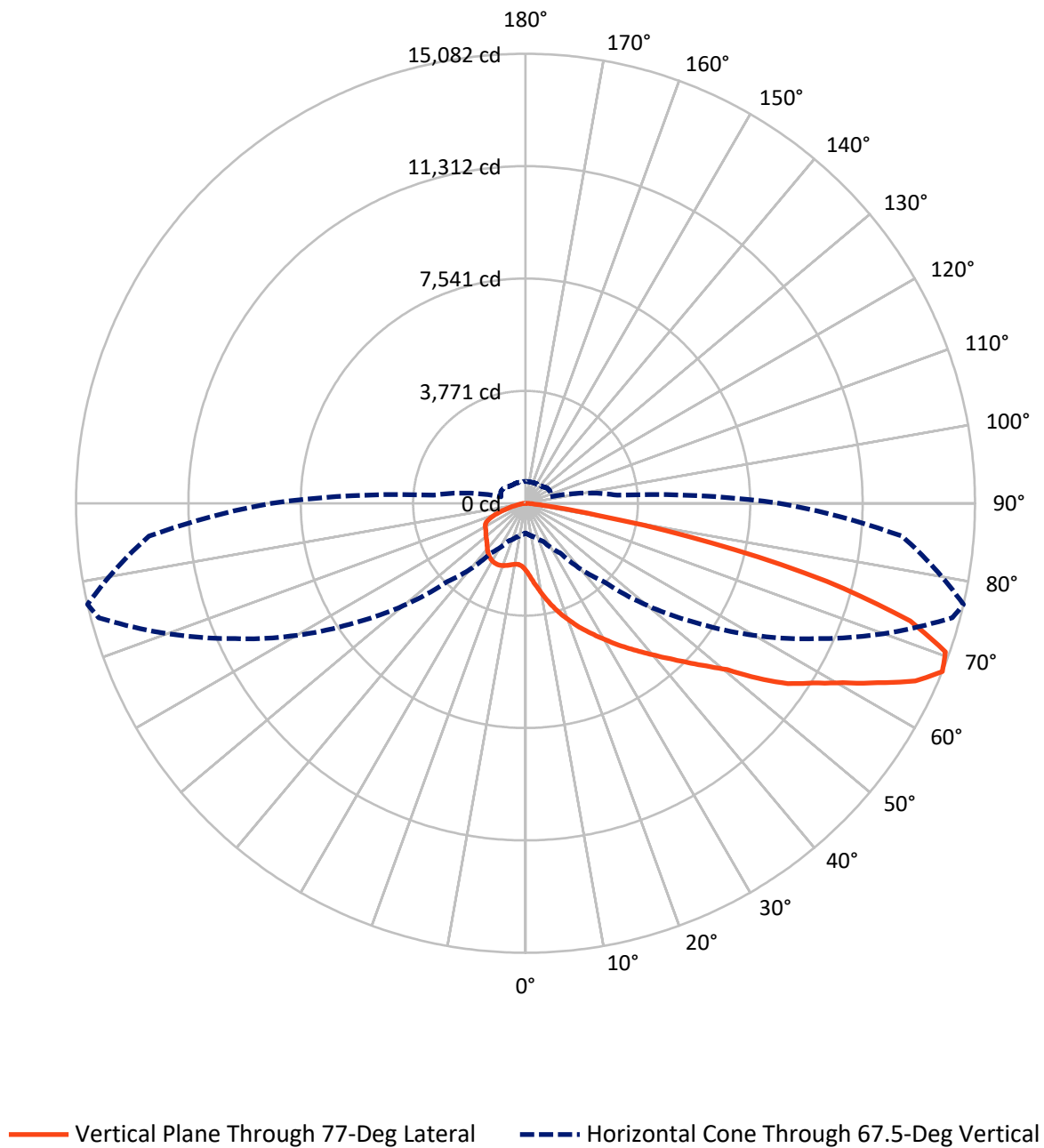
Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3636.8	0.0	3636.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	15589.2	0.0	15589.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	19226.0	0.0	19226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	1.3
10°-20°	868.7	4.5
20°-30°	1640.1	8.5
30°-40°	2642.2	13.7
40°-50°	3614.1	18.8
50°-60°	4076.7	21.2
60°-70°	3805.1	19.8
70°-80°	2085.8	10.8
80°-90°	251.6	1.3
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°	19226.0	100.0
0°-180°	19226.0	100.0

Coefficient of Utilization



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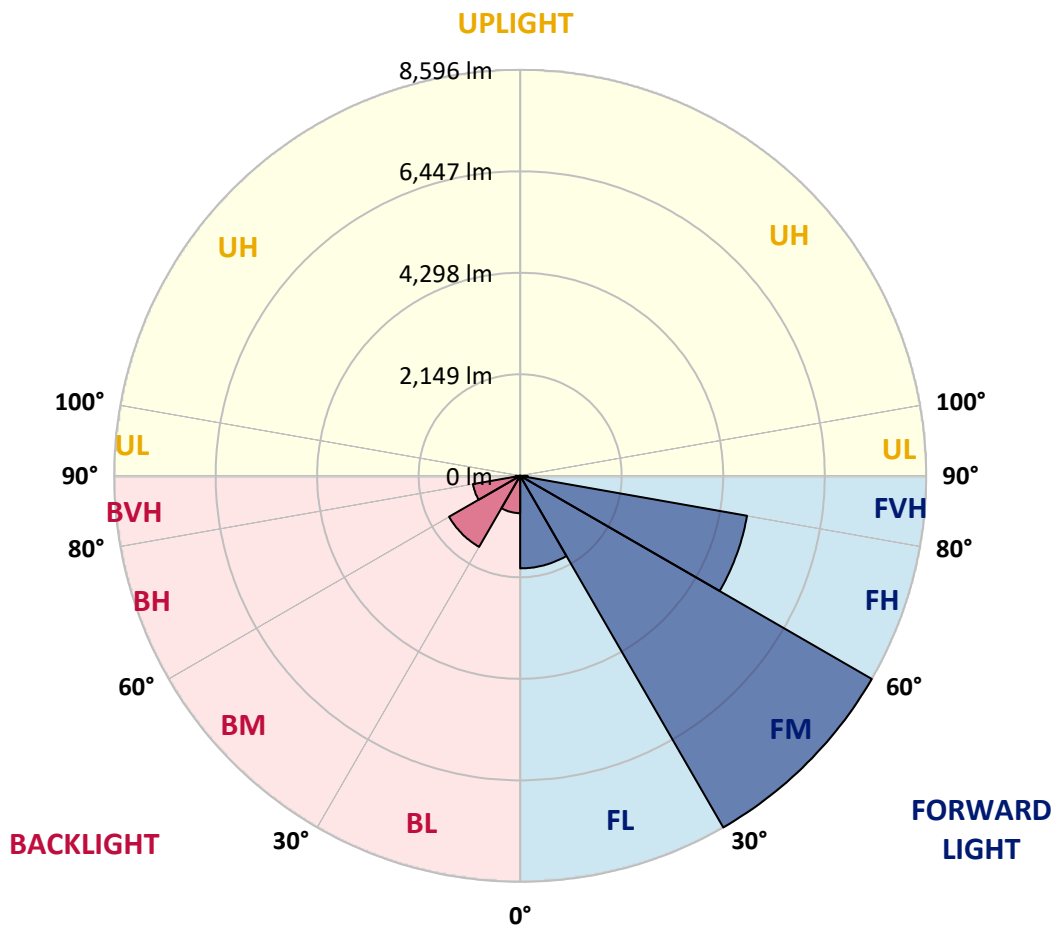
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1959.9	10.2			
FM	(30°-60°)	8595.7	44.7			
FH	(60°-80°)	4876.3	25.4			G2/5000
FVH	(80°-90°)	157.3	0.8			G2/225
BL	(0°-30°)	790.7	4.1	B2/1000		
BM	(30°-60°)	1737.2	9.0	B2/2500		
BH	(60°-80°)	1014.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	94.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8
2.5°	2824.5	2844.3	2819.5	2819.5	2736.1	2692.5	2609.1	2545.6	2431.5	2411.6	2336.2
5°	3338.6	3363.4	3328.6	3313.7	3215.5	3125.2	2985.2	2847.3	2643.8	2623.0	2445.4
7.5°	3736.5	3768.3	3737.5	3721.6	3634.3	3533.1	3369.3	3176.8	2890.0	2849.3	2592.2
10°	4061.0	4066.0	4056.1	4062.0	3993.6	3910.2	3742.5	3518.2	3159.9	3104.3	2769.9
12.5°	4244.6	4267.5	4287.3	4323.1	4311.1	4259.5	4108.7	3840.7	3445.7	3374.3	2963.4
15°	4331.0	4370.7	4415.3	4497.7	4564.2	4577.1	4462.0	4187.1	3736.5	3650.2	3158.9
17.5°	4361.8	4399.5	4469.9	4589.0	4731.9	4828.2	4776.6	4523.5	4024.3	3925.1	3364.4
20°	4517.6	4528.5	4571.2	4684.3	4839.1	4998.9	5037.6	4847.1	4309.2	4197.0	3576.7
22.5°	4851.0	4829.2	4841.1	4892.7	5003.9	5158.7	5247.0	5132.9	4601.9	4472.9	3791.1
25°	5401.8	5338.3	5274.8	5215.3	5271.8	5359.2	5459.4	5418.7	4908.6	4744.8	4007.5
27.5°	6097.5	6020.1	5880.2	5684.7	5616.2	5647.0	5691.6	5683.7	5192.4	5026.7	4230.8
30°	6782.3	6692.0	6525.3	6242.4	6061.8	5980.4	5946.7	5923.9	5501.1	5324.4	4456.0
32.5°	7329.1	7257.7	7093.9	6777.3	6515.3	6376.4	6264.3	6182.9	5823.6	5647.0	4694.2
35°	7807.5	7741.0	7553.4	7208.1	6923.2	6775.4	6628.5	6454.8	6159.1	5980.4	4950.3
37.5°	8244.2	8177.7	7920.6	7561.4	7274.6	7172.3	7041.3	6746.6	6495.5	6326.8	5221.2
40°	8520.1	8505.2	8265.0	7858.1	7560.4	7509.8	7466.1	7085.0	6868.6	6711.8	5518.9
42.5°	8590.5	8623.3	8432.7	8098.3	7814.4	7773.8	7876.0	7468.1	7287.5	7137.6	5856.4
45°	8420.8	8515.1	8390.1	8162.8	7995.1	7973.2	8239.2	7886.9	7750.9	7614.0	6263.3
47.5°	7991.1	8150.9	8099.3	8067.5	8043.7	8138.0	8558.8	8331.5	8275.9	8156.8	6727.7
50°	7123.7	7426.4	7516.7	7717.2	7947.4	8266.0	8849.6	8816.8	8889.2	8769.2	7293.4
52.5°	5624.1	6041.0	6565.0	7067.1	7651.7	8223.3	9169.1	9513.5	9819.2	9753.7	8192.6
55°	4642.6	4830.2	5233.1	6154.1	7078.1	8043.7	9313.0	10076.2	10742.1	10683.6	8874.4
57.5°	3888.4	4056.1	4304.2	5073.3	6210.7	7635.8	9402.3	10419.6	11374.3	11368.4	9547.2
60°	3079.5	3257.2	3511.2	4056.1	5197.4	6931.2	9382.5	10810.6	12181.2	12230.8	10368.0
62.5°	2166.5	2362.0	2643.8	3152.0	4162.3	6018.1	8977.6	11093.4	13130.9	13265.9	11355.5
65°	1424.1	1553.2	1765.5	2204.2	3101.4	4844.1	8204.5	11130.2	14147.2	14375.4	12282.4
67.5°	998.4	1048.0	1173.1	1411.2	2044.4	3714.7	6972.9	10750.1	14825.0	15082.1	12684.3
70°	779.1	803.9	867.4	962.7	1284.2	2498.0	5343.3	9761.6	14680.1	14948.1	12264.5
72.5°	672.9	696.7	720.5	732.4	861.4	1542.2	3619.4	8161.8	13315.5	13497.1	10663.7
75°	610.3	616.3	636.2	632.2	657.0	1000.4	2089.1	5946.7	10505.9	10443.4	7872.0
77.5°	513.1	521.0	553.8	548.8	583.6	683.8	1084.7	3837.8	6811.1	6386.3	4381.6
80°	434.7	438.7	474.4	468.4	507.1	495.2	553.8	1956.1	2889.0	2447.3	1263.4
82.5°	150.9	186.6	362.2	373.2	387.1	299.7	319.6	797.9	882.3	675.8	265.0
85°	73.4	78.4	184.6	262.0	261.0	150.9	155.8	284.8	277.9	218.3	88.3
87.5°	11.9	14.9	21.8	102.2	81.4	39.7	53.6	55.6	57.6	49.6	19.8
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°	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8	2255.8
2.5°	2280.6	2231.0	2126.8	2030.5	1955.1	1882.7	1842.0	1807.2	1787.4	1783.4	1783.4
5°	2342.1	2239.9	2050.4	1890.6	1786.4	1709.0	1668.3	1642.5	1629.6	1621.6	1620.6
7.5°	2430.5	2280.6	2010.7	1829.1	1719.9	1664.3	1643.5	1639.5	1638.5	1639.5	1642.5
10°	2552.5	2347.1	2006.7	1814.2	1722.9	1692.1	1691.1	1692.1	1696.1	1697.1	1698.1
12.5°	2684.5	2415.6	2022.6	1827.1	1760.6	1743.7	1740.7	1739.7	1742.7	1744.7	1745.7
15°	2828.4	2505.9	2049.4	1854.9	1802.3	1784.4	1781.4	1775.5	1774.5	1773.5	1772.5
17.5°	2976.3	2595.2	2079.2	1884.6	1829.1	1804.2	1793.3	1779.4	1768.5	1765.5	1768.5
20°	3126.2	2683.5	2100.0	1899.5	1831.0	1796.3	1774.5	1750.7	1731.8	1720.9	1724.9
22.5°	3286.0	2775.8	2112.9	1895.6	1813.2	1765.5	1725.8	1698.1	1669.3	1650.4	1651.4
25°	3441.8	2856.2	2111.9	1874.7	1778.4	1717.9	1667.3	1631.6	1591.9	1572.0	1572.0
27.5°	3591.6	2928.7	2087.1	1838.0	1728.8	1661.3	1600.8	1558.1	1519.4	1500.6	1499.6
30°	3746.4	2989.2	2048.4	1784.4	1670.3	1595.8	1529.3	1492.6	1457.9	1440.0	1439.0
32.5°	3900.3	3044.8	1993.8	1717.9	1602.8	1531.3	1465.8	1432.1	1411.2	1411.2	1412.2
35°	4063.0	3083.5	1921.4	1640.5	1531.3	1462.9	1411.2	1391.4	1389.4	1377.5	1374.5
37.5°	4234.7	3108.3	1833.0	1561.1	1460.9	1396.4	1380.5	1356.7	1336.8	1311.0	1307.0
40°	4415.3	3133.1	1726.8	1478.7	1386.4	1350.7	1343.8	1312.0	1255.4	1191.9	1183.0
42.5°	4634.7	3150.0	1616.7	1396.4	1308.0	1296.1	1306.0	1251.5	1161.2	1113.5	1114.5
45°	4888.7	3177.8	1515.4	1315.0	1227.6	1227.6	1269.3	1197.9	1123.4	1093.7	1098.6
47.5°	5218.2	3242.3	1421.2	1225.7	1153.2	1173.1	1187.9	1133.4	1091.7	1055.0	1054.0
50°	5694.6	3397.1	1323.9	1135.3	1096.6	1136.3	1115.5	1083.7	1035.1	1005.3	1002.4
52.5°	6286.1	3488.4	1237.6	1054.0	1048.0	1087.7	1057.9	1028.2	991.4	951.7	943.8
55°	6689.0	3505.3	1165.1	994.4	1015.3	1011.3	1000.4	973.6	953.7	901.1	902.1
57.5°	7139.6	3539.0	1105.6	958.7	994.4	950.8	946.8	924.0	898.2	862.4	850.5
60°	7678.5	3591.6	1054.0	944.8	976.6	911.1	891.2	882.3	856.5	838.6	843.6
62.5°	8266.0	3639.3	1001.4	946.8	955.7	872.4	842.6	839.6	823.7	817.8	817.8
65°	8666.9	3509.3	935.9	944.8	923.0	832.7	794.9	793.9	781.0	779.1	778.1
67.5°	8527.0	3097.4	847.5	917.0	889.2	793.0	751.3	747.3	730.4	731.4	731.4
70°	7826.4	2509.9	725.5	848.5	847.5	757.2	705.6	692.7	669.9	673.9	677.8
72.5°	6512.4	1859.8	561.7	734.4	781.0	724.5	653.0	632.2	603.4	607.4	606.4
75°	4703.2	1264.4	408.9	558.7	679.8	685.8	601.4	565.7	531.0	536.9	538.9
77.5°	2406.7	716.5	300.7	385.1	533.9	623.2	554.8	507.1	499.2	554.8	546.8
80°	785.0	359.3	208.4	269.9	350.3	510.1	486.3	431.7	429.7	442.6	380.1
82.5°	234.2	151.8	134.0	177.6	193.5	391.0	419.8	326.5	280.9	295.7	305.7
85°	80.4	73.4	76.4	88.3	92.3	229.3	293.8	216.4	204.4	225.3	222.3
87.5°	18.9	25.8	21.8	19.8	19.8	55.6	114.1	90.3	125.0	83.4	80.4
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)