

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: P458736

Luminaire Tested: **GALN-SA2D-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14769 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

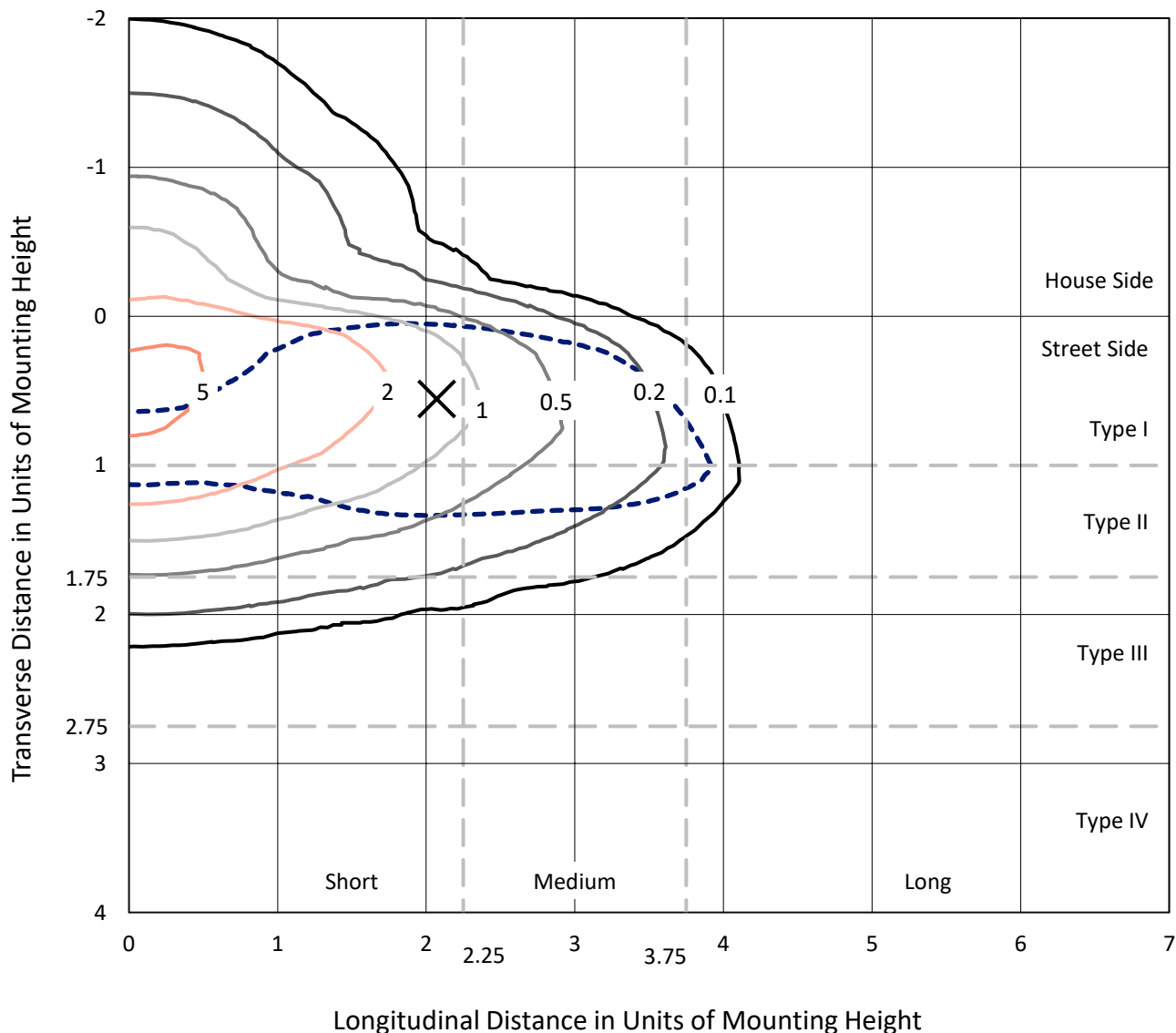
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

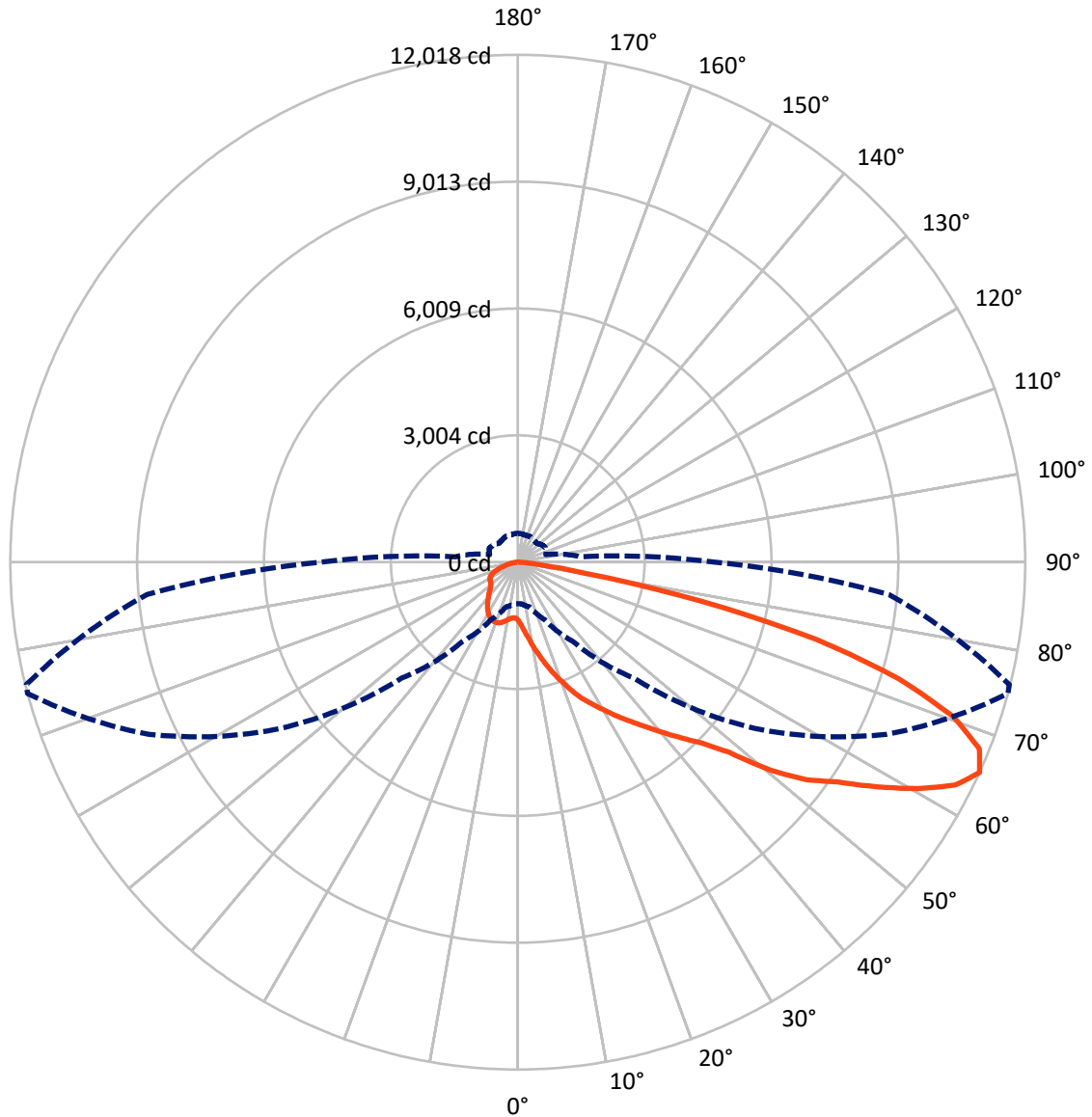
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2482.9	0.0	2482.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	12286.1	0.0	12286.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	14769.0	0.0	14769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	1.1
10°-20°	653.0	4.4
20°-30°	1261.4	8.5
30°-40°	2048.9	13.9
40°-50°	2818.5	19.1
50°-60°	3327.7	22.5
60°-70°	2915.6	19.7
70°-80°	1391.9	9.4
80°-90°	185.2	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°	14769.0	100.0
0°-180°	14769.0	100.0

Coefficient of Utilization



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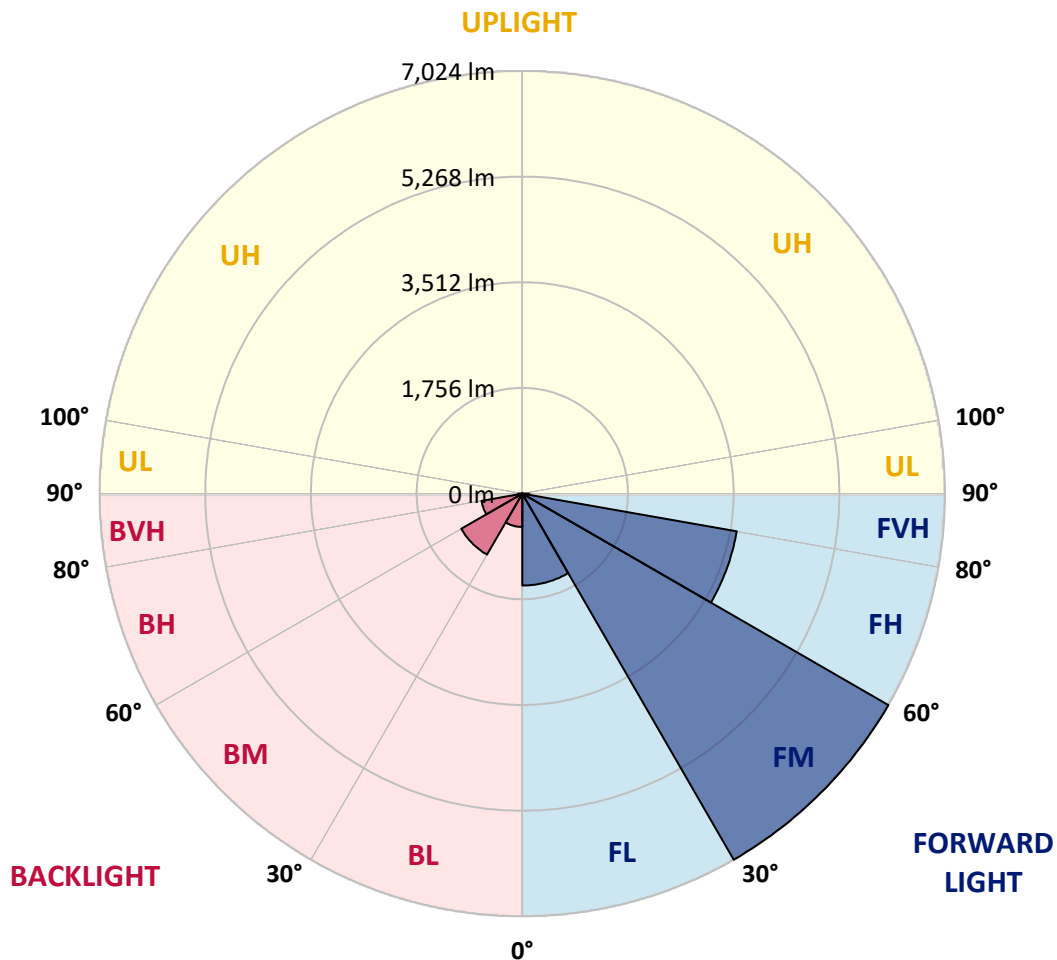
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1526.9	10.3			
FM	(30°-60°)	7024.4	47.6			
FH	(60°-80°)	3619.1	24.5			G2/5000
FVH	(80°-90°)	115.7	0.8			G2/225
BL	(0°-30°)	554.3	3.8	B2/1000		
BM	(30°-60°)	1170.7	7.9	B2/2500		
BH	(60°-80°)	688.4	4.7	B2/1000		G2/1000
BVH	(80°-90°)	69.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2
2.5°	1823.2	1811.2	1798.4	1763.1	1725.5	1683.0	1622.2	1563.7	1486.0	1483.6	1425.9
5°	2328.7	2320.7	2263.8	2231.0	2143.7	2027.5	1929.0	1776.0	1634.2	1617.4	1505.2
7.5°	2793.3	2762.1	2740.4	2681.2	2594.7	2445.7	2255.0	2048.3	1811.2	1788.8	1602.9
10°	3143.4	3140.2	3129.0	3077.7	3012.8	2864.6	2653.1	2356.7	2035.5	1991.5	1721.5
12.5°	3405.3	3407.7	3406.1	3405.3	3358.9	3233.1	3004.0	2691.6	2262.2	2231.0	1858.5
15°	3577.6	3601.6	3611.2	3651.3	3655.3	3571.2	3374.1	3015.2	2517.8	2471.3	2005.9
17.5°	3691.3	3703.3	3748.2	3816.3	3871.6	3856.3	3680.9	3314.8	2778.9	2701.2	2158.9
20°	3800.3	3821.1	3855.5	3948.5	4046.2	4091.0	3967.7	3621.6	3037.6	2988.0	2327.9
22.5°	4027.0	4056.6	4068.6	4115.9	4199.2	4278.5	4222.4	3915.6	3321.2	3253.9	2507.3
25°	4410.7	4441.9	4408.3	4397.1	4424.3	4463.5	4451.5	4192.8	3588.8	3492.6	2677.2
27.5°	4910.5	4914.5	4848.9	4786.4	4719.1	4699.1	4662.2	4438.7	3821.1	3741.0	2847.8
30°	5447.3	5428.0	5319.1	5206.1	5092.4	4980.2	4874.5	4675.8	4079.8	3987.7	3015.2
32.5°	5945.5	5935.1	5814.1	5638.7	5446.5	5340.7	5126.8	4915.3	4357.0	4268.1	3187.4
35°	6318.8	6334.0	6201.1	6009.6	5799.7	5706.0	5436.0	5166.9	4643.8	4546.9	3374.9
37.5°	6584.0	6576.0	6458.2	6292.4	6108.1	6026.4	5797.3	5441.6	4952.2	4859.3	3580.0
40°	6678.5	6673.7	6586.4	6465.4	6348.5	6319.6	6175.4	5738.0	5305.5	5196.5	3826.7
42.5°	6618.4	6628.8	6571.1	6538.3	6516.7	6537.5	6551.1	6126.6	5690.8	5590.6	4094.3
45°	6434.2	6428.6	6420.5	6474.2	6596.0	6733.0	6922.8	6493.4	6109.7	6029.6	4453.1
47.5°	6104.9	6145.0	6165.0	6313.2	6579.2	6903.6	7350.6	6985.3	6717.7	6648.0	5000.3
50°	5644.3	5676.4	5794.9	6058.5	6455.0	6967.7	7768.7	7789.6	7731.9	7601.3	5594.6
52.5°	4925.0	4974.6	5218.9	5702.0	6200.3	6941.2	8021.9	8479.3	8555.4	8457.7	6180.2
55°	4119.9	4189.6	4447.5	5081.2	5849.4	6797.0	8196.5	8879.0	9182.6	9092.1	6744.2
57.5°	3331.6	3405.3	3670.5	4284.1	5237.4	6478.2	8311.1	9324.4	10036.6	9918.8	7445.9
60°	2496.9	2573.8	2801.3	3433.4	4365.8	5855.0	8233.4	9710.5	10889.7	10839.2	8148.4
62.5°	1610.9	1695.9	1893.7	2416.8	3355.7	5003.5	7817.6	9923.6	11628.3	11567.4	8661.1
65°	981.3	990.9	1099.9	1500.4	2296.7	3874.0	6866.7	9640.8	12017.6	11999.2	8817.3
67.5°	634.4	649.7	699.3	898.8	1377.0	2690.8	5490.5	8707.6	11790.1	11783.7	8494.5
70°	535.9	540.7	563.1	606.4	800.3	1631.8	3855.5	7220.0	10925.7	10925.7	7718.3
72.5°	479.0	485.4	493.5	507.1	571.2	924.4	2300.7	5620.3	9433.4	9495.8	6569.5
75°	435.0	433.4	438.2	440.6	487.0	604.0	1189.6	4156.7	7297.7	7172.7	4757.5
77.5°	372.5	374.9	372.5	382.9	430.2	459.8	604.0	2789.3	4422.7	4260.9	2388.0
80°	306.0	310.0	314.0	320.4	367.7	349.3	362.9	1271.3	1635.8	1601.3	737.8
82.5°	229.9	235.5	241.9	257.1	289.2	230.7	229.1	543.1	590.4	540.7	271.6
85°	92.9	109.7	165.8	181.0	181.8	126.6	141.0	226.7	241.1	235.5	106.5
87.5°	21.6	25.6	53.7	80.9	74.5	47.3	52.1	73.7	84.1	77.7	36.0
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°	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2
2.5°	1399.5	1371.4	1323.4	1286.5	1260.1	1236.8	1222.4	1213.6	1210.4	1209.6	1210.4
5°	1446.7	1397.1	1321.0	1272.9	1246.5	1231.2	1222.4	1221.6	1222.4	1223.2	1220.8
7.5°	1511.6	1440.3	1341.0	1296.1	1276.1	1264.9	1260.9	1259.3	1260.1	1259.3	1259.3
10°	1598.1	1500.4	1380.2	1333.8	1317.0	1304.1	1297.7	1293.7	1290.5	1287.3	1285.7
12.5°	1693.5	1566.9	1422.7	1377.8	1353.8	1333.8	1319.4	1308.9	1301.7	1294.5	1292.9
15°	1800.0	1637.4	1470.0	1407.5	1373.0	1343.4	1318.6	1301.7	1288.9	1278.5	1277.7
17.5°	1901.7	1703.9	1502.0	1421.1	1370.6	1329.0	1296.1	1272.9	1256.9	1243.3	1241.7
20°	2010.7	1767.2	1516.4	1412.3	1346.6	1296.1	1252.9	1224.8	1206.4	1191.2	1188.8
22.5°	2120.4	1820.8	1514.8	1384.2	1304.9	1245.7	1200.0	1170.4	1148.7	1133.5	1127.9
25°	2225.4	1864.1	1494.8	1339.4	1247.3	1185.6	1139.1	1111.9	1092.7	1074.2	1074.2
27.5°	2319.9	1889.7	1457.1	1284.9	1188.0	1123.1	1086.2	1061.4	1043.8	1031.8	1024.6
30°	2412.8	1901.7	1405.9	1216.0	1125.5	1070.2	1040.6	1026.2	1010.1	996.5	994.9
32.5°	2496.1	1899.3	1341.8	1148.7	1066.2	1027.0	1015.0	1003.7	986.9	967.7	962.9
35°	2577.0	1883.3	1265.7	1075.0	1016.6	1001.3	1004.5	988.5	958.1	934.0	930.0
37.5°	2665.1	1854.5	1182.4	1015.0	974.9	989.3	997.3	962.1	912.4	874.8	866.0
40°	2766.9	1821.6	1095.9	954.9	942.1	978.1	978.1	913.2	845.1	821.9	815.5
42.5°	2886.2	1794.4	1023.8	904.4	914.8	950.9	946.9	848.3	820.3	808.3	805.1
45°	3075.3	1784.8	949.3	860.3	892.4	918.8	886.0	825.9	809.9	800.3	797.1
47.5°	3374.1	1796.0	883.6	827.5	866.8	886.8	817.9	810.7	799.5	785.8	784.2
50°	3651.3	1785.6	837.1	809.1	844.3	848.3	789.9	792.3	785.8	770.6	767.4
52.5°	3878.0	1752.7	807.5	799.5	825.1	781.0	763.4	772.2	769.8	750.6	747.4
55°	4127.1	1732.7	793.1	799.5	812.3	722.6	738.6	751.4	748.2	734.6	733.8
57.5°	4429.1	1736.7	782.6	801.9	799.5	692.9	713.8	729.0	728.2	724.2	724.2
60°	4738.3	1738.3	766.6	801.1	784.2	669.7	688.1	709.7	711.3	713.8	713.8
62.5°	4840.8	1668.6	735.4	786.6	750.6	647.3	664.1	693.7	692.1	698.5	699.3
65°	4649.4	1475.6	688.9	753.8	707.3	631.2	645.7	672.9	664.1	680.9	684.1
67.5°	4232.0	1220.8	616.8	694.5	659.3	614.4	633.6	644.1	628.0	660.9	661.7
70°	3657.7	953.3	525.5	610.4	604.8	596.8	624.0	608.0	585.6	625.6	617.6
72.5°	3058.5	728.2	419.8	499.1	531.9	570.4	607.2	561.5	530.3	542.3	527.9
75°	2297.5	538.3	337.2	390.9	443.0	532.7	592.0	505.5	457.4	446.2	443.0
77.5°	1171.2	351.7	252.3	292.4	332.4	481.4	571.2	439.8	378.9	361.3	353.3
80°	418.2	218.7	177.8	201.9	224.3	414.2	499.1	363.7	294.0	290.8	294.0
82.5°	193.9	141.0	119.4	132.2	133.0	276.4	380.5	271.6	223.5	339.7	286.8
85°	83.3	70.5	67.3	65.7	60.9	123.4	213.9	145.8	227.5	101.7	93.7
87.5°	24.8	28.0	24.8	18.4	13.6	13.6	21.6	8.0	5.6	4.0	4.0
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)