

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: P452356

Luminaire Tested: **GALN-SA3B-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452356
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-SA3B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17311 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

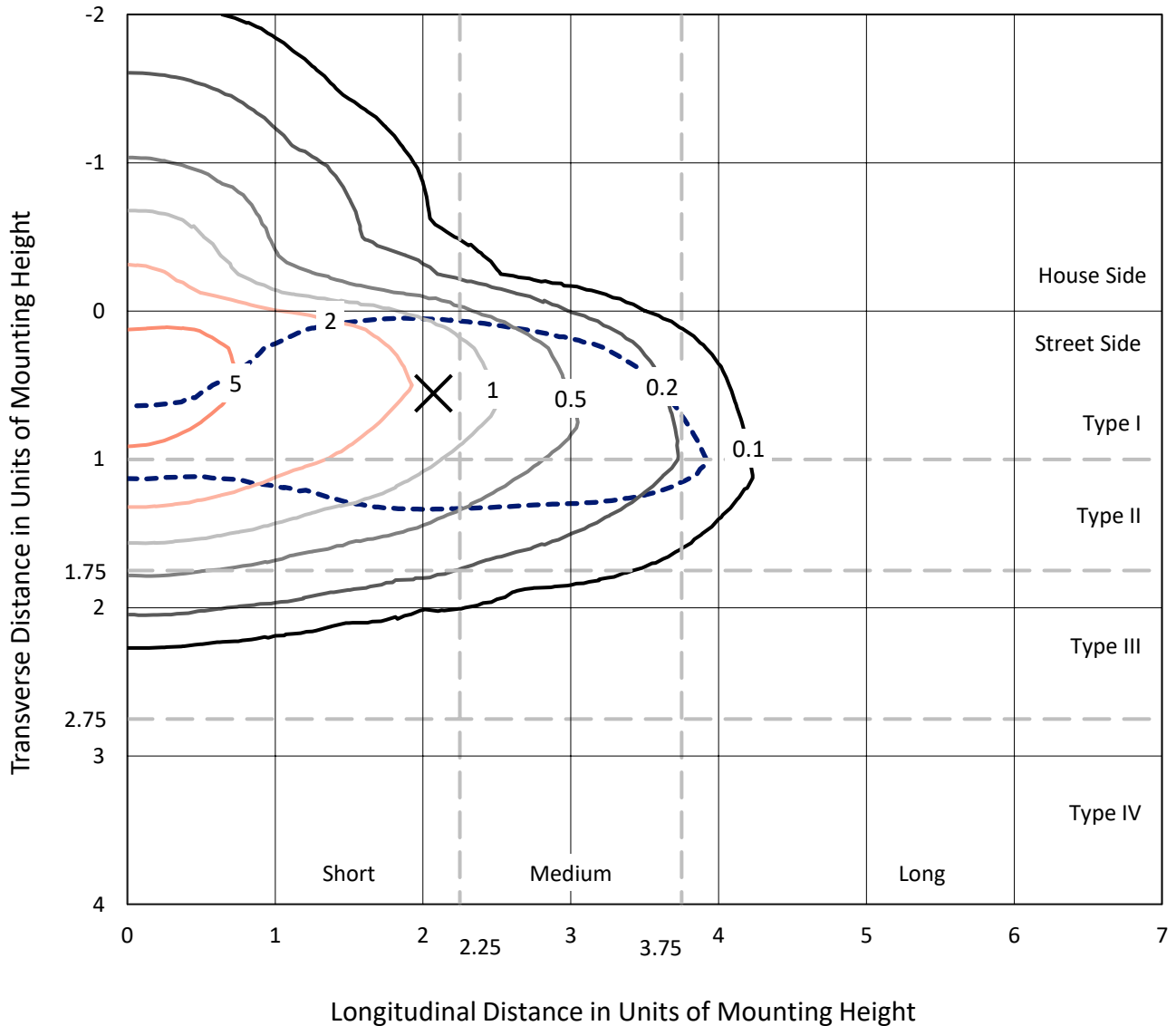
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

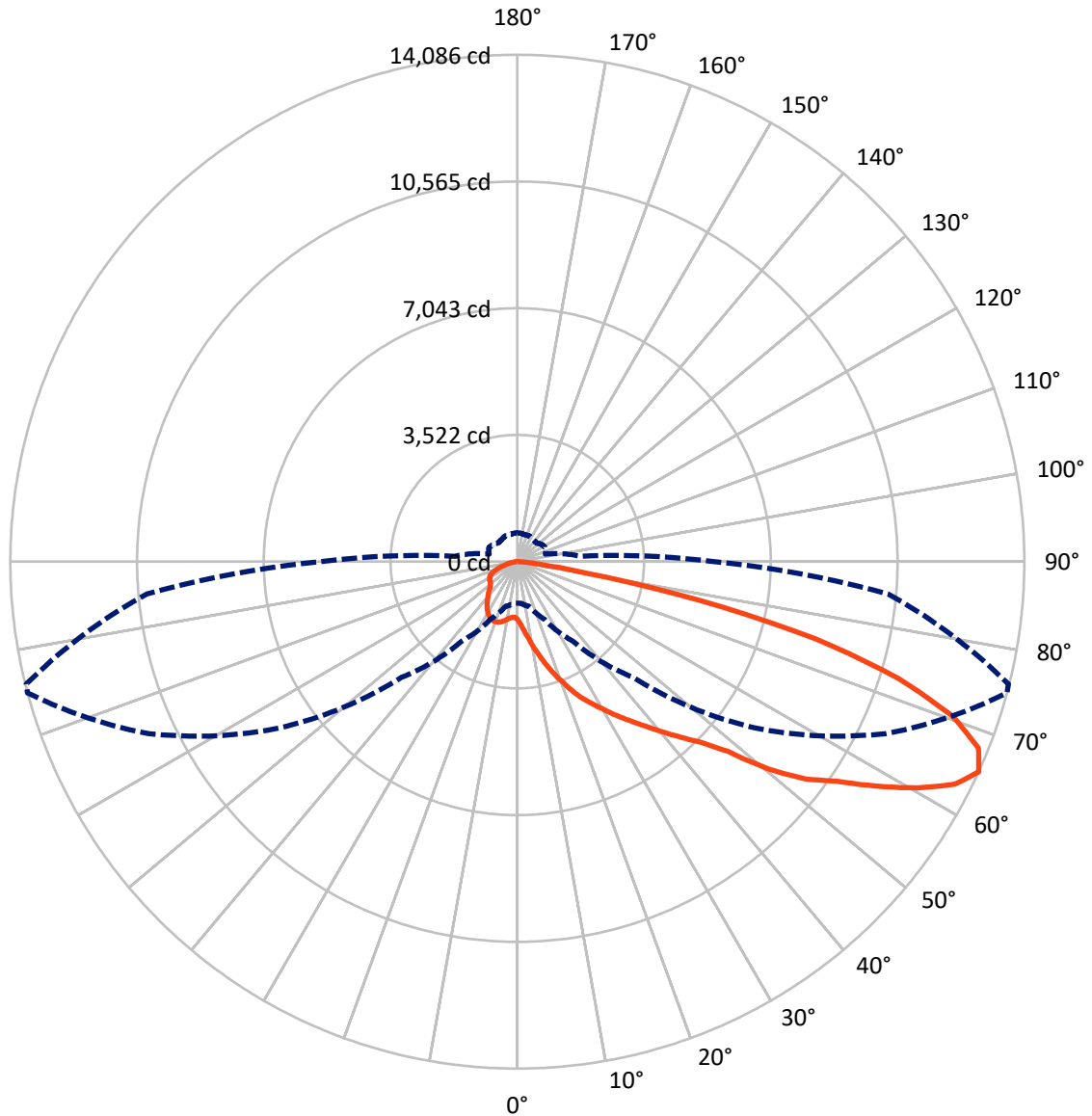
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	2910.2	0.0	2910.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	14400.8	0.0	14400.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	17311.0	0.0	17311.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	1.1
10°-20°	765.4	4.4
20°-30°	1478.5	8.5
30°-40°	2401.6	13.9
40°-50°	3303.6	19.1
50°-60°	3900.4	22.5
60°-70°	3417.4	19.7
70°-80°	1631.5	9.4
80°-90°	217.1	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°	17311.0	100.0
0°-180°	17311.0	100.0



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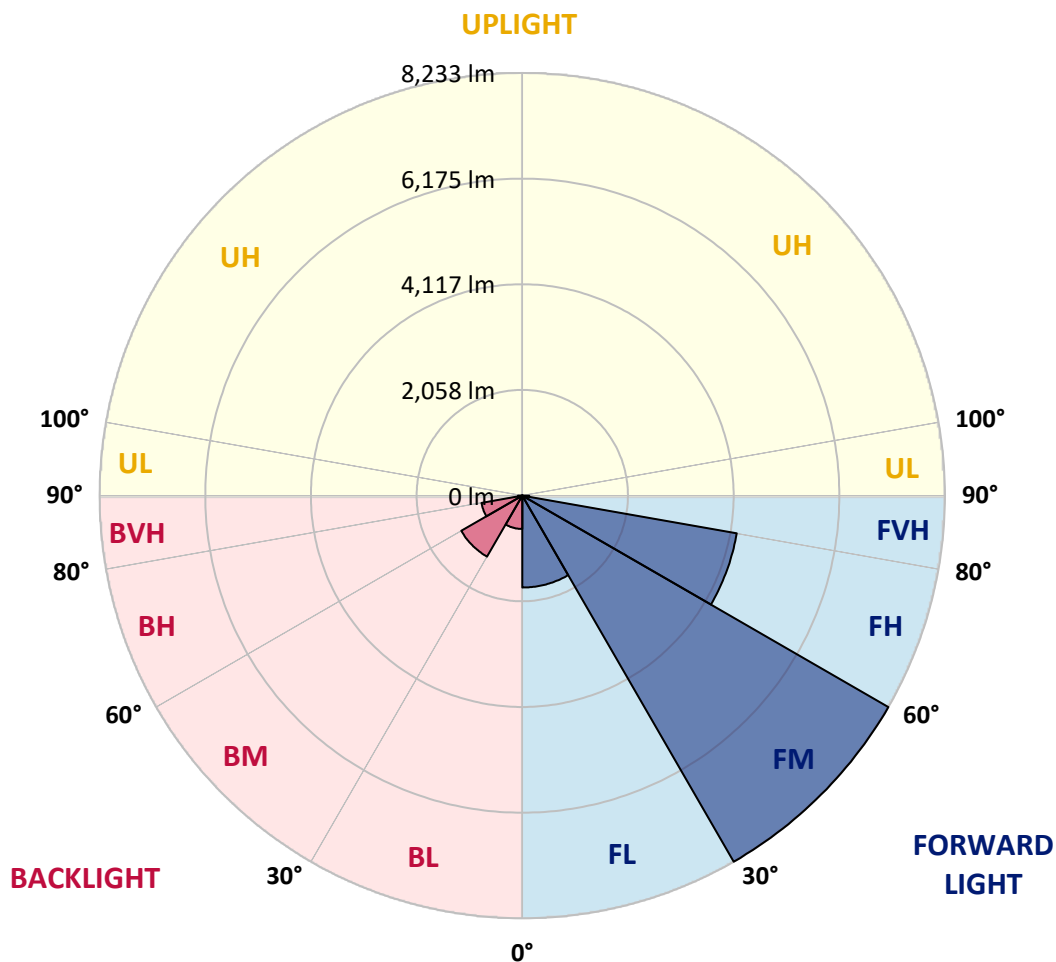
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.7	10.3			
FM (30°-60°)	8233.5	47.6			
FH (60°-80°)	4242.0	24.5			G2/5000
FVH (80°-90°)	135.7	0.8			G2/225
BL (0°-30°)	649.7	3.8	B2/1000		
BM (30°-60°)	1372.1	7.9	B2/2500		
BH (60°-80°)	806.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	81.4	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°	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4
2.5°	2137.0	2123.0	2107.9	2066.6	2022.5	1972.7	1901.4	1832.8	1741.7	1738.9	1671.3
5°	2729.5	2720.1	2653.5	2615.0	2512.6	2376.5	2261.0	2081.6	1915.4	1895.7	1764.3
7.5°	3274.1	3237.5	3212.1	3142.6	3041.2	2866.6	2643.1	2400.9	2123.0	2096.7	1878.8
10°	3684.4	3680.7	3667.5	3607.4	3531.4	3357.7	3109.8	2762.4	2385.9	2334.2	2017.8
12.5°	3991.4	3994.3	3992.4	3991.4	3937.0	3789.6	3521.0	3154.9	2651.6	2615.0	2178.3
15°	4193.3	4221.5	4232.8	4279.7	4284.4	4185.8	3954.8	3534.2	2951.1	2896.6	2351.1
17.5°	4326.7	4340.7	4393.3	4473.1	4537.9	4520.1	4314.4	3885.3	3257.2	3166.1	2530.5
20°	4454.3	4478.8	4519.1	4628.1	4742.6	4795.2	4650.6	4245.0	3560.5	3502.3	2728.6
22.5°	4720.1	4754.8	4768.9	4824.3	4921.9	5014.9	4949.2	4589.6	3892.9	3814.0	2938.9
25°	5169.8	5206.4	5167.0	5153.9	5185.8	5231.8	5217.7	4914.4	4206.5	4093.8	3137.9
27.5°	5755.7	5760.4	5683.4	5610.2	5531.3	5507.8	5464.7	5202.7	4478.8	4384.9	3337.9
30°	6384.8	6362.3	6234.6	6102.2	5968.9	5837.4	5713.5	5480.6	4782.0	4674.1	3534.2
32.5°	6968.8	6956.6	6814.9	6609.2	6383.9	6259.9	6009.2	5761.4	5106.9	5002.7	3736.1
35°	7406.4	7424.2	7268.4	7044.0	6798.0	6688.1	6371.7	6056.2	5443.1	5329.4	3955.8
37.5°	7717.2	7707.8	7569.8	7375.4	7159.4	7063.7	6795.1	6378.2	5804.5	5695.6	4196.1
40°	7828.0	7822.3	7720.0	7578.2	7441.1	7407.3	7238.3	6725.7	6218.6	6090.9	4485.3
42.5°	7757.6	7769.8	7702.2	7663.7	7638.3	7662.7	7678.7	7181.0	6670.3	6552.9	4798.9
45°	7541.6	7535.0	7525.6	7588.5	7731.3	7891.8	8114.4	7611.1	7161.3	7067.4	5219.6
47.5°	7155.7	7202.6	7226.1	7399.8	7711.5	8091.8	8615.7	8187.6	7874.0	7792.3	5860.9
50°	6615.8	6653.4	6792.3	7101.2	7566.0	8166.9	9105.9	9130.3	9062.7	8909.6	6557.6
52.5°	5772.6	5830.8	6117.2	6683.4	7267.4	8135.9	9402.6	9938.7	10027.9	9913.4	7244.0
55°	4829.0	4910.7	5213.0	5955.7	6856.2	7966.9	9607.3	10407.3	10763.1	10657.0	7905.0
57.5°	3905.1	3991.4	4302.2	5021.5	6138.8	7593.2	9741.5	10929.3	11764.0	11626.0	8727.5
60°	2926.7	3016.8	3283.5	4024.3	5117.2	6862.7	9650.5	11381.9	12764.0	12704.8	9550.9
62.5°	1888.2	1987.7	2219.7	2832.8	3933.2	5864.6	9163.2	11631.6	13629.7	13558.3	10151.9
65°	1150.2	1161.5	1289.2	1758.6	2692.0	4540.7	8048.6	11300.2	14086.0	14064.4	10335.0
67.5°	743.6	761.5	819.7	1053.5	1614.0	3153.9	6435.5	10206.3	13819.4	13811.9	9956.6
70°	628.2	633.8	660.1	710.8	938.0	1912.6	4519.1	8462.7	12806.3	12806.3	9046.7
72.5°	561.5	569.0	578.4	594.4	669.5	1083.5	2696.6	6587.6	11057.0	11130.2	7700.3
75°	509.8	508.0	513.6	516.4	570.9	708.0	1394.3	4872.2	8553.8	8407.3	5576.4
77.5°	436.6	439.4	436.6	448.8	504.2	539.0	708.0	3269.4	5183.9	4994.2	2799.0
80°	358.7	363.4	368.1	375.6	431.0	409.4	425.3	1490.1	1917.3	1876.9	864.8
82.5°	269.5	276.0	283.6	301.4	339.0	270.4	268.5	636.6	692.0	633.8	318.3
85°	108.9	128.6	194.4	212.2	213.1	148.4	165.3	265.7	282.6	276.0	124.9
87.5°	25.4	30.0	62.9	94.8	87.3	55.4	61.0	86.4	98.6	91.1	42.3
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°	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4	1608.4
2.5°	1640.3	1607.5	1551.1	1507.9	1477.0	1449.7	1432.8	1422.5	1418.7	1417.8	1418.7
5°	1695.7	1637.5	1548.3	1492.0	1461.0	1443.2	1432.8	1431.9	1432.8	1433.8	1431.0
7.5°	1771.8	1688.2	1571.8	1519.2	1495.7	1482.6	1477.9	1476.0	1477.0	1476.0	1476.0
10°	1873.2	1758.6	1617.8	1563.3	1543.6	1528.6	1521.1	1516.4	1512.6	1508.9	1507.0
12.5°	1984.9	1836.6	1667.6	1615.0	1586.8	1563.3	1546.4	1534.2	1525.8	1517.3	1515.5
15°	2109.8	1919.2	1723.0	1649.7	1609.3	1574.6	1545.5	1525.8	1510.8	1498.6	1497.6
17.5°	2229.1	1997.1	1760.5	1665.7	1606.5	1557.7	1519.2	1492.0	1473.2	1457.2	1455.4
20°	2356.7	2071.3	1777.4	1655.4	1578.4	1519.2	1468.5	1435.6	1414.0	1396.2	1393.4
22.5°	2485.4	2134.2	1775.5	1622.5	1529.5	1460.1	1406.5	1371.8	1346.4	1328.6	1322.0
25°	2608.4	2184.9	1752.1	1569.9	1461.9	1389.6	1335.2	1303.3	1280.7	1259.1	1259.1
27.5°	2719.2	2215.0	1707.9	1506.1	1392.5	1316.4	1273.2	1244.1	1223.4	1209.4	1200.9
30°	2828.1	2229.1	1647.8	1425.3	1319.2	1254.4	1219.7	1202.8	1184.0	1168.0	1166.2
32.5°	2925.7	2226.2	1572.7	1346.4	1249.7	1203.7	1189.6	1176.5	1156.8	1134.2	1128.6
35°	3020.6	2207.5	1483.5	1260.1	1191.5	1173.7	1177.4	1158.7	1123.0	1094.8	1090.1
37.5°	3123.9	2173.7	1385.9	1189.6	1142.7	1159.6	1169.0	1127.7	1069.5	1025.3	1015.0
40°	3243.1	2135.2	1284.5	1119.2	1104.2	1146.5	1146.5	1070.4	990.6	963.4	955.8
42.5°	3383.0	2103.2	1200.0	1060.1	1072.3	1114.5	1109.8	994.3	961.5	947.4	943.6
45°	3604.6	2092.0	1112.6	1008.4	1046.0	1077.0	1038.5	968.1	949.3	938.0	934.2
47.5°	3954.8	2105.1	1035.7	969.9	1015.9	1039.4	958.7	950.2	937.1	921.1	919.2
50°	4279.7	2092.9	981.2	948.3	989.6	994.3	925.8	928.6	921.1	903.3	899.5
52.5°	4545.4	2054.4	946.5	937.1	967.1	915.5	894.8	905.1	902.3	879.8	876.0
55°	4837.4	2030.9	929.6	937.1	952.1	846.9	865.7	880.7	877.0	861.0	860.1
57.5°	5191.4	2035.6	917.3	939.9	937.1	812.2	836.6	854.4	853.5	848.8	848.8
60°	5553.9	2037.5	898.6	938.9	919.2	785.0	806.6	831.9	833.8	836.6	836.6
62.5°	5674.0	1955.8	862.0	922.0	879.8	758.7	778.4	813.1	811.2	818.8	819.7
65°	5449.6	1729.5	807.5	883.5	829.1	739.9	756.8	788.7	778.4	798.1	801.9
67.5°	4960.4	1431.0	723.0	814.1	772.8	720.2	742.7	754.9	736.1	774.6	775.6
70°	4287.2	1117.3	615.9	715.5	708.9	699.5	731.4	712.7	686.4	733.3	723.9
72.5°	3584.9	853.5	492.0	585.0	623.5	668.5	711.7	658.2	621.6	635.7	618.8
75°	2692.9	631.0	395.3	458.2	519.2	624.4	693.9	592.5	536.1	523.0	519.2
77.5°	1372.7	412.2	295.8	342.7	389.7	564.3	669.5	515.5	444.1	423.5	414.1
80°	490.1	256.3	208.4	236.6	262.9	485.4	585.0	426.3	344.6	340.8	344.6
82.5°	227.2	165.3	139.9	154.9	155.9	323.9	446.0	318.3	262.0	398.1	336.1
85°	97.7	82.6	78.9	77.0	71.4	144.6	250.7	170.9	266.7	119.2	109.9
87.5°	29.1	32.9	29.1	21.6	16.0	16.0	25.4	9.4	6.6	4.7	4.7
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)