

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: P651252

Luminaire Tested: **GALN-SA2D-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11496.5 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

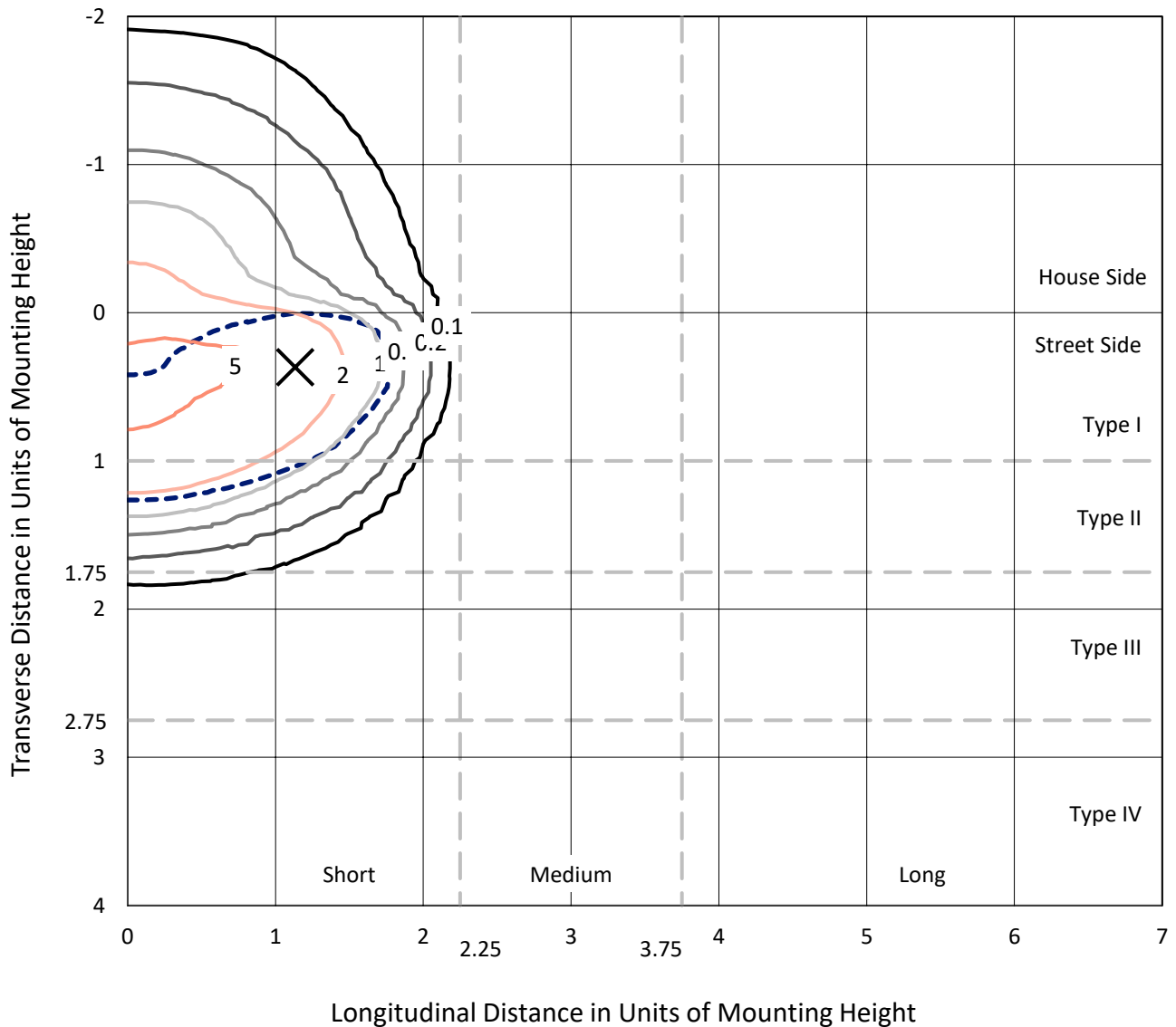
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

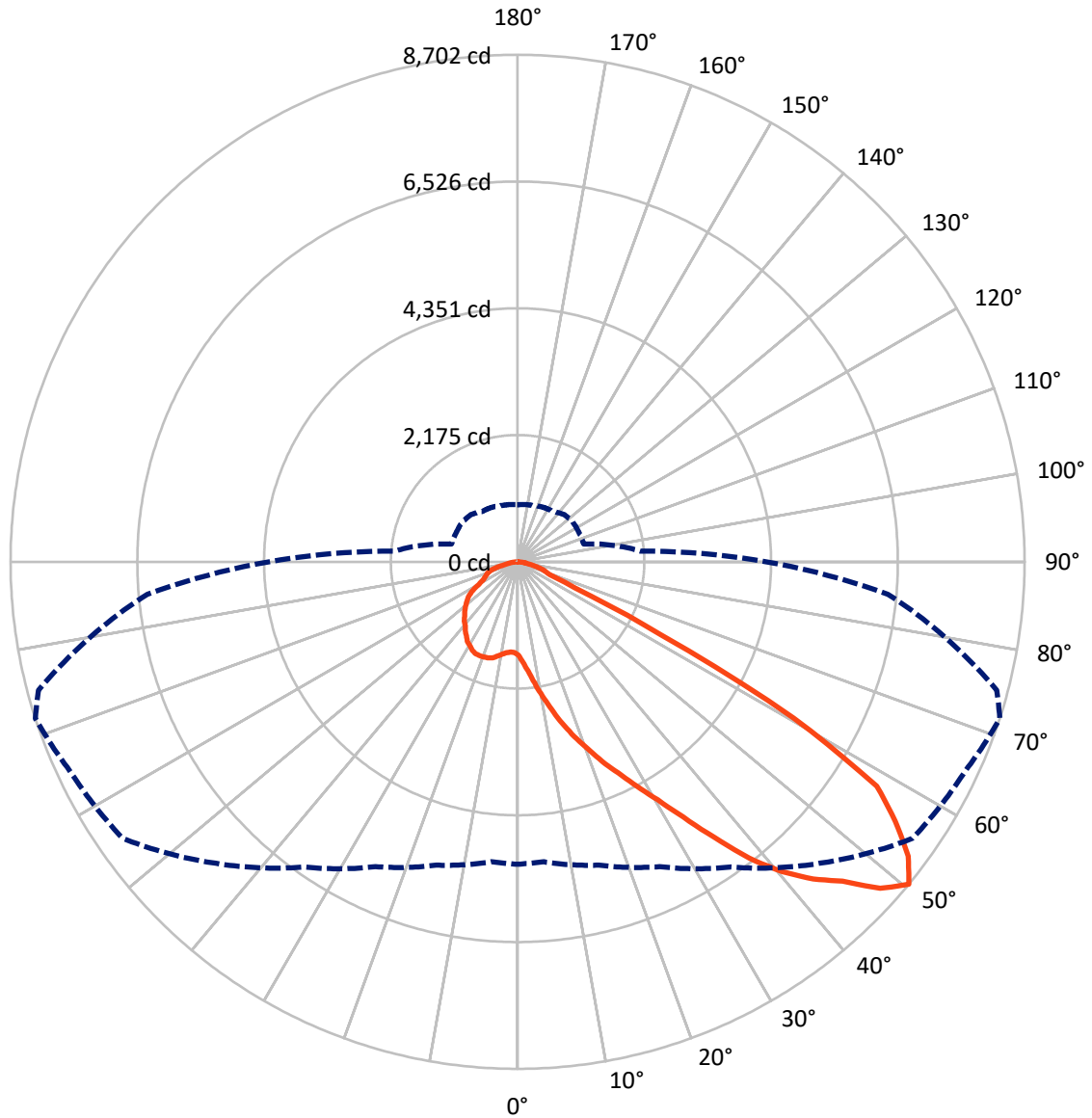
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2633.9	0.0	2633.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8862.6	0.0	8862.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	11496.5	0.0	11496.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	1.6
10°-20°	703.7	6.1
20°-30°	1364.5	11.9
30°-40°	2260.5	19.7
40°-50°	3162.9	27.5
50°-60°	2668.3	23.2
60°-70°	813.3	7.1
70°-80°	285.3	2.5
80°-90°	49.6	0.4
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°	11496.5	100.0
0°-180°	11496.5	100.0

Coefficient of Utilization



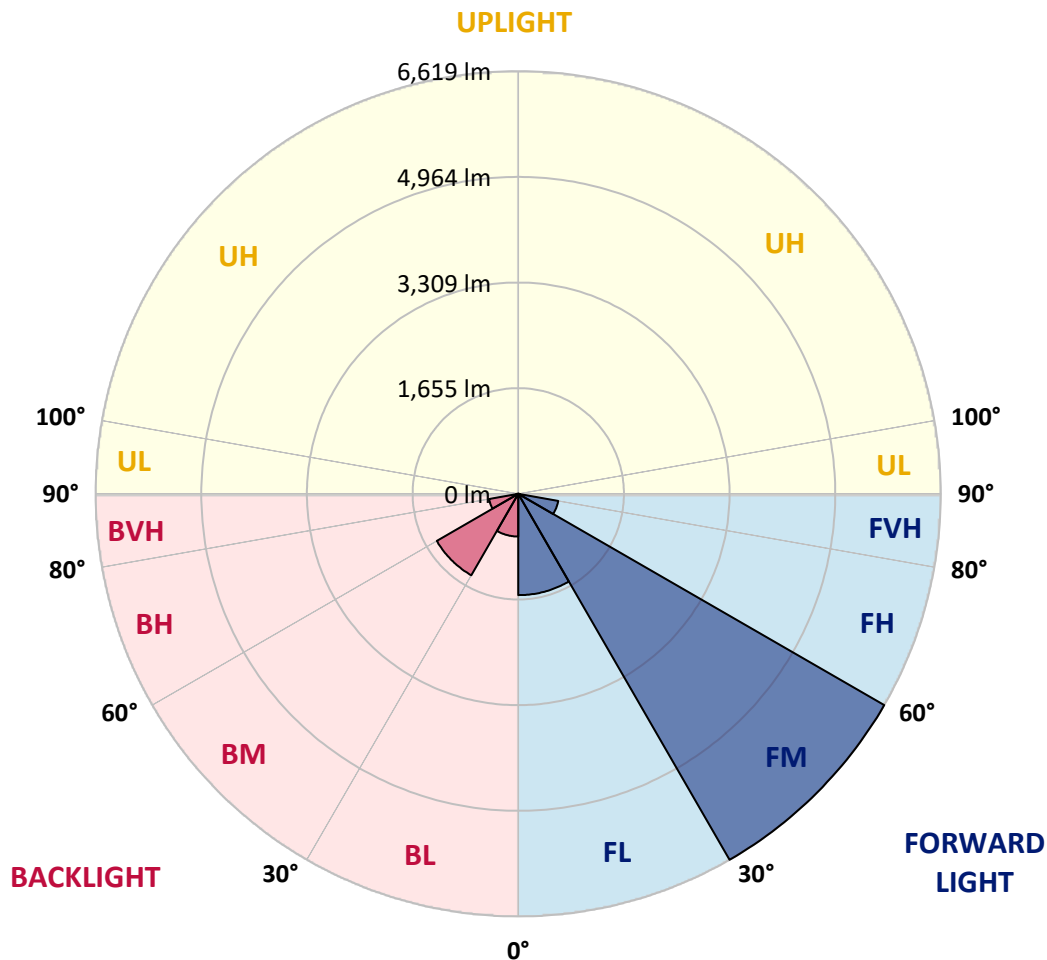
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1586.9	13.8			
FM (30°-60°)	6618.8	57.6			
FH (60°-80°)	634.6	5.5			G0/660
FVH (80°-90°)	22.2	0.2			G1/100
BL (0°-30°)	669.6	5.8	B2/1000		
BM (30°-60°)	1472.9	12.8	B2/2500		
BH (60°-80°)	464.0	4.0	B1/500		G1/500
BVH (80°-90°)	27.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	2058.5	2045.6	2007.3	1994.4	1948.9	1866.4	1838.0	1754.1	1718.5	1685.8	1647.4
5°	2603.3	2543.6	2539.3	2466.7	2361.5	2300.3	2118.2	1995.9	1883.5	1826.6	1721.4
7.5°	2950.5	2951.8	2951.8	2892.1	2808.2	2653.1	2489.5	2269.0	2099.7	2015.8	1836.6
10°	3280.5	3252.1	3236.3	3230.7	3173.8	3023.0	2848.0	2574.9	2343.0	2244.8	1923.4
12.5°	3513.8	3489.6	3525.1	3506.6	3465.4	3367.3	3202.3	2890.7	2600.5	2468.2	2062.7
15°	3624.7	3641.8	3670.3	3721.5	3703.0	3666.0	3483.9	3215.1	2877.9	2728.5	2186.5
17.5°	3795.4	3748.5	3782.6	3846.6	3897.9	3880.8	3776.9	3449.8	3152.4	2968.9	2352.9
20°	3914.9	3887.9	3905.0	3978.9	4017.4	4114.1	4060.1	3757.1	3415.6	3222.1	2549.2
22.5°	4256.4	4216.5	4161.0	4172.5	4186.7	4255.0	4267.7	4094.2	3721.5	3516.6	2735.6
25°	4677.5	4640.5	4575.0	4508.2	4466.9	4454.1	4498.2	4358.8	4014.5	3802.6	2936.2
27.5°	5141.2	5078.6	5037.3	4899.4	4788.4	4771.3	4750.0	4674.6	4361.7	4132.6	3162.4
30°	5592.1	5542.4	5486.9	5266.4	5151.2	5132.7	5027.4	5048.8	4738.6	4484.0	3418.5
32.5°	5933.6	5937.9	5811.2	5644.8	5536.7	5438.6	5400.1	5461.3	5222.3	5017.5	3704.4
35°	6209.6	6222.4	6101.5	5950.7	5834.0	5902.3	5885.2	5913.7	5799.9	5549.5	4037.3
37.5°	6478.5	6414.4	6285.0	6212.4	6151.2	6263.6	6408.8	6432.9	6454.3	6159.8	4424.2
40°	6522.5	6528.3	6452.8	6504.0	6427.3	6596.6	6933.7	6902.3	6989.1	6731.7	4843.9
42.5°	6460.0	6472.8	6502.6	6575.2	6760.1	6963.6	7464.3	7336.3	7441.5	7212.5	5252.2
45°	6357.5	6304.9	6341.9	6617.8	6937.9	7390.3	7949.4	7849.8	7815.7	7623.7	5738.7
47.5°	5868.2	5922.2	6037.5	6377.5	6858.3	7464.3	8293.7	8270.9	8373.3	8238.2	6181.1
50°	5189.6	5168.3	5390.1	5772.9	6393.1	7319.2	8275.2	8481.5	8701.9	8514.2	6378.9
52.5°	3886.5	4000.3	4191.0	4666.0	5550.9	6528.3	7871.2	8215.4	8394.7	8354.8	6219.5
55°	2456.8	2491.0	2606.2	3170.9	3967.6	5239.3	6747.3	7545.4	7865.5	8014.8	6073.0
57.5°	1193.5	1129.5	1270.3	1724.1	2291.8	3523.7	5203.8	6572.3	7268.0	7538.3	5754.4
60°	623.1	647.2	702.7	865.0	1185.1	1829.4	3243.5	4380.1	5442.8	5858.2	4361.7
62.5°	516.4	525.0	562.0	643.0	788.1	1052.7	1655.9	2135.3	2775.5	3149.6	2481.0
65°	438.2	442.5	482.2	536.3	628.8	741.2	852.1	892.0	1079.8	1108.2	882.0
67.5°	365.6	369.9	412.5	463.7	523.5	553.4	581.8	579.0	600.3	591.8	590.4
70°	281.7	285.9	330.0	384.1	413.9	396.9	485.1	505.0	513.5	520.7	532.0
72.5°	203.4	211.9	246.1	284.5	268.9	308.7	399.7	429.6	441.0	445.3	459.5
75°	147.9	150.8	159.4	147.9	170.7	214.8	281.7	318.7	332.9	337.2	358.5
77.5°	65.4	66.9	68.3	85.4	109.5	133.7	167.9	197.7	217.7	223.4	229.0
80°	34.1	35.6	44.1	58.4	78.2	98.1	122.4	139.4	152.2	153.7	159.4
82.5°	21.4	22.8	31.3	41.3	55.5	72.6	89.7	103.9	113.8	115.2	116.6
85°	9.9	12.8	18.5	25.6	37.0	46.9	48.4	41.3	44.1	45.5	42.6
87.5°	2.9	4.3	5.7	4.3	5.7	5.7	7.1	8.5	8.5	8.5	9.9
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°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1626.0	1613.2	1563.4	1544.9	1496.6	1505.1	1479.5	1478.1	1472.3	1471.0	1469.6
5°	1665.9	1626.0	1566.3	1520.8	1493.7	1490.8	1472.3	1472.3	1478.1	1482.3	1472.3
7.5°	1731.3	1685.8	1584.8	1542.1	1517.9	1513.6	1500.8	1490.8	1503.7	1499.4	1488.0
10°	1806.7	1727.0	1620.4	1583.4	1543.5	1533.6	1533.6	1537.9	1516.5	1523.6	1512.2
12.5°	1890.7	1783.9	1665.9	1623.1	1576.2	1570.6	1567.7	1536.4	1547.8	1542.1	1513.6
15°	1997.3	1849.4	1724.1	1651.6	1611.8	1586.2	1549.2	1543.5	1536.4	1522.1	1509.3
17.5°	2112.5	1920.5	1751.2	1660.1	1600.4	1581.9	1553.5	1523.6	1502.3	1505.1	1495.1
20°	2210.7	1985.9	1761.1	1668.7	1591.8	1556.3	1512.2	1493.7	1471.0	1469.6	1468.1
22.5°	2327.4	2074.2	1775.4	1645.9	1566.3	1529.3	1499.4	1466.7	1451.1	1431.1	1441.1
25°	2466.7	2108.3	1778.2	1633.1	1547.8	1482.3	1466.7	1431.1	1425.4	1397.0	1402.7
27.5°	2567.7	2126.7	1755.5	1593.3	1505.1	1455.3	1426.8	1401.3	1391.3	1370.0	1364.3
30°	2702.9	2155.2	1707.1	1543.5	1462.4	1406.9	1389.8	1384.2	1355.7	1333.0	1330.1
32.5°	2856.5	2173.7	1675.8	1492.3	1418.3	1375.6	1384.2	1357.1	1321.5	1301.7	1296.0
35°	2978.9	2180.8	1597.6	1434.0	1388.4	1361.4	1351.5	1345.8	1294.6	1276.0	1261.8
37.5°	3165.3	2165.2	1532.1	1392.7	1355.7	1345.8	1337.2	1298.8	1240.5	1213.5	1193.5
40°	3382.9	2160.9	1448.2	1334.4	1324.4	1335.8	1310.2	1250.5	1169.3	1139.5	1125.3
42.5°	3592.0	2190.8	1395.6	1303.0	1290.3	1294.6	1259.0	1169.3	1129.5	1112.5	1089.7
45°	3942.0	2253.4	1308.8	1254.7	1249.1	1246.2	1203.5	1109.6	1086.8	1065.5	1061.3
47.5°	4257.8	2212.1	1253.3	1204.9	1210.6	1195.0	1103.9	1074.0	1048.5	1027.1	1020.0
50°	4276.3	2113.9	1175.0	1166.6	1168.0	1140.9	1054.1	1034.2	1001.5	987.2	977.3
52.5°	4179.5	1953.2	1102.5	1105.3	1109.6	1065.5	993.0	978.8	951.7	931.8	926.1
55°	3907.9	1702.9	1031.4	1042.8	1054.1	970.2	947.5	911.9	890.5	862.1	863.5
57.5°	3442.6	1371.3	931.8	950.2	974.5	882.0	865.0	820.8	789.5	766.7	764.0
60°	2307.5	975.9	782.4	789.5	843.6	806.6	805.2	761.1	718.4	698.5	687.1
62.5°	1361.4	745.5	675.7	668.6	667.2	688.5	724.1	708.5	653.0	614.5	626.0
65°	712.7	644.5	628.8	604.6	590.4	584.7	611.7	618.8	581.8	540.6	537.7
67.5°	598.9	598.9	586.1	577.6	557.7	533.4	516.4	493.7	487.9	476.6	462.3
70°	544.9	559.1	554.8	534.9	517.8	490.8	446.7	409.7	374.2	361.4	369.9
72.5°	475.2	489.4	489.4	479.4	456.7	415.4	372.7	330.0	300.2	277.4	274.6
75°	365.6	372.7	389.8	378.4	348.5	322.9	278.8	234.7	206.3	184.9	180.6
77.5°	233.3	244.6	244.6	243.3	221.9	197.7	169.3	138.0	116.6	101.0	96.7
80°	155.1	162.1	167.9	162.1	147.9	129.4	108.2	86.8	71.1	58.4	55.5
82.5°	113.8	122.4	126.6	120.9	106.7	92.4	76.8	61.1	45.5	35.6	32.7
85°	44.1	45.5	51.2	61.1	59.7	58.4	46.9	34.1	25.6	18.5	17.1
87.5°	11.4	9.9	11.4	11.4	9.9	8.5	8.5	8.5	8.5	4.3	5.7
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)