

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: P527850

Luminaire Tested: **GALN-SA2D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9592 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

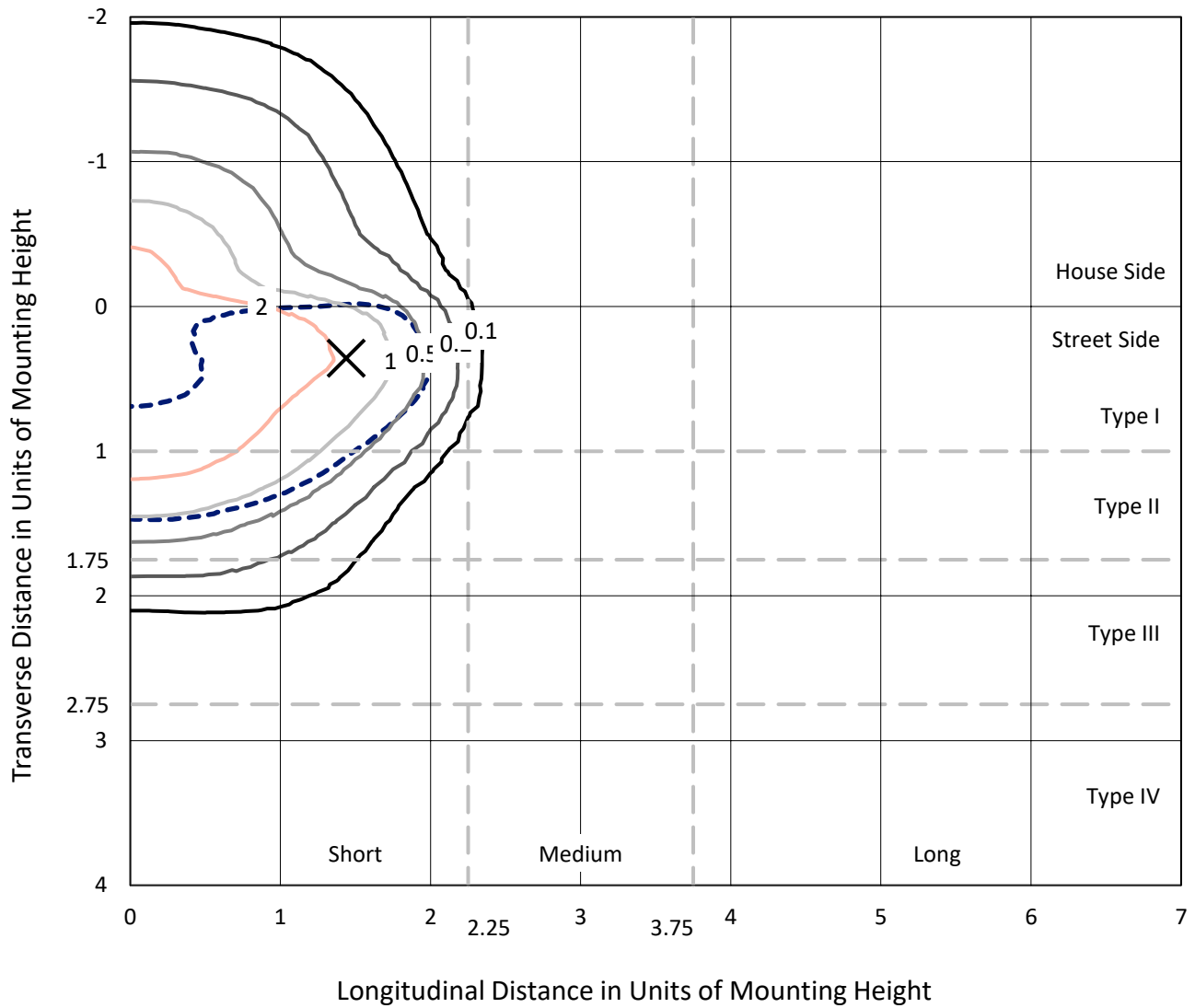
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2D-827-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

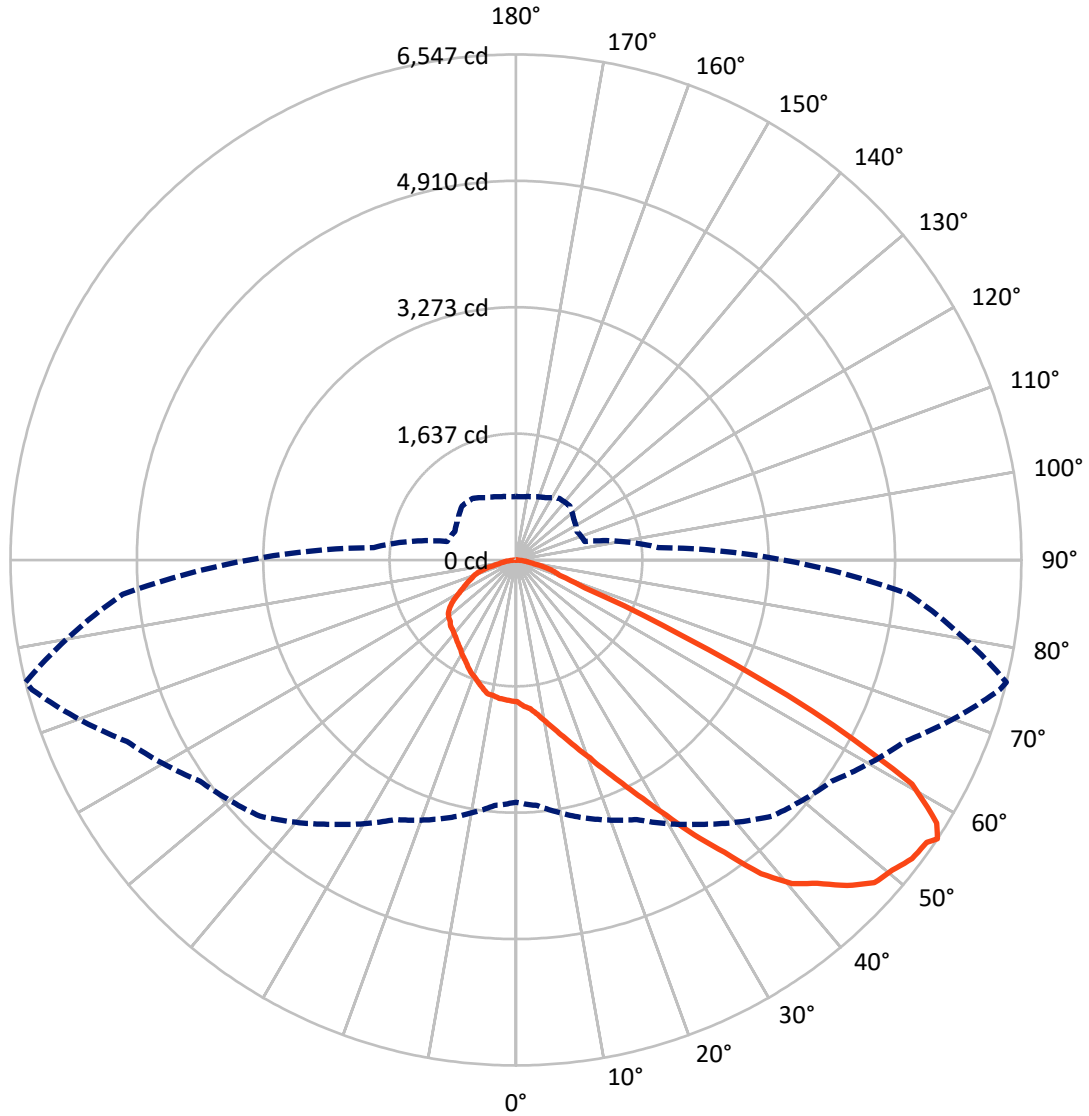
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P527850
CATALOG NUMBER: GALN-SA2D-827-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2579.0	0.0	2579.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7013.0	0.0	7013.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	9592.0	0.0	9592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	1.9
10°-20°	571.7	6.0
20°-30°	999.9	10.4
30°-40°	1565.6	16.3
40°-50°	2277.4	23.7
50°-60°	2503.1	26.1
60°-70°	1117.3	11.6
70°-80°	322.7	3.4
80°-90°	52.3	0.5
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°	9592.0	100.0
0°-180°	9592.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527850

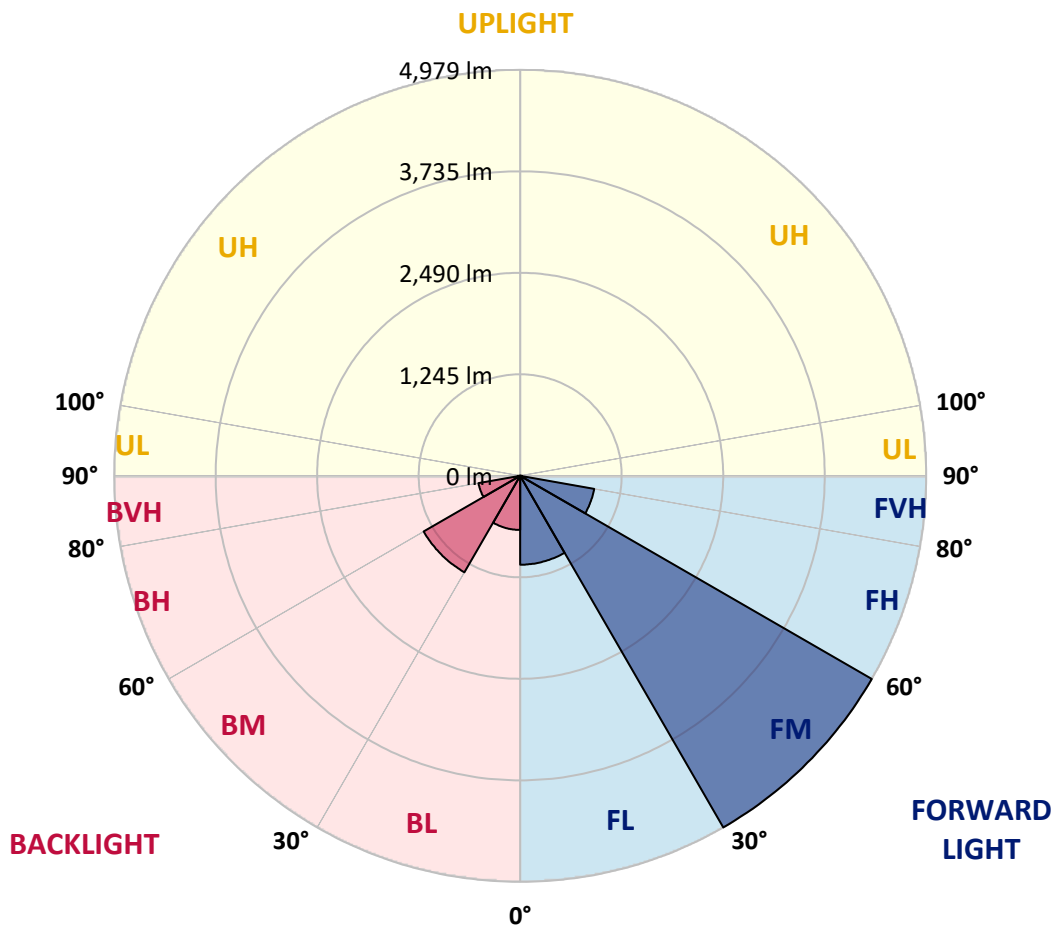
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.0	11.4			
FM (30°-60°)	4979.4	51.9			
FH (60°-80°)	921.1	9.6			G1/1800
FVH (80°-90°)	22.5	0.2			G1/100
BL (0°-30°)	663.6	6.9	B2/1000		
BM (30°-60°)	1366.7	14.2	B2/2500		
BH (60°-80°)	518.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.8	0.3			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





REPORT NUMBER: P527850

CATALOG NUMBER: GALN-SA2D-827-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	2021.8	1989.5	1987.0	1978.3	1983.3	1960.9	1937.3	1906.2	1873.9	1893.7	1846.5
5°	2163.6	2120.1	2137.5	2107.6	2111.3	2081.5	2033.0	1997.0	1957.2	1933.5	1900.0
7.5°	2213.3	2217.0	2229.5	2224.5	2199.6	2199.6	2167.3	2103.9	2034.3	2020.6	1964.6
10°	2280.5	2281.7	2268.0	2271.8	2306.6	2290.4	2261.8	2234.4	2144.9	2128.8	2029.3
12.5°	2304.1	2281.7	2304.1	2324.0	2365.0	2387.4	2381.2	2361.3	2265.5	2254.3	2108.9
15°	2307.8	2294.1	2312.8	2357.5	2393.6	2488.1	2535.4	2521.7	2394.9	2396.1	2198.4
17.5°	2290.4	2309.1	2316.5	2355.1	2438.4	2526.7	2663.4	2682.1	2577.6	2561.5	2311.5
20°	2314.0	2300.3	2310.3	2345.1	2455.8	2593.8	2772.9	2896.0	2749.2	2738.0	2428.4
22.5°	2404.8	2386.1	2383.7	2406.0	2485.6	2628.6	2888.5	3109.8	2958.1	2964.3	2573.9
25°	2475.7	2485.6	2476.9	2475.7	2525.4	2680.8	3041.4	3364.7	3241.6	3205.6	2745.5
27.5°	2597.5	2621.2	2603.7	2627.4	2616.2	2759.2	3150.9	3647.0	3547.5	3499.0	2900.9
30°	2766.6	2779.1	2762.9	2762.9	2729.3	2868.6	3250.3	3941.7	3900.6	3834.7	3083.7
32.5°	2989.2	3007.9	2975.5	2956.9	2951.9	3031.5	3429.4	4232.6	4302.3	4246.3	3326.2
35°	3283.9	3272.7	3234.2	3216.8	3149.6	3281.4	3695.5	4567.1	4749.9	4650.4	3619.6
37.5°	3543.8	3526.4	3523.9	3426.9	3443.1	3551.2	3921.8	4820.8	5183.9	5155.3	3929.2
40°	3786.3	3802.4	3828.5	3773.8	3748.9	3868.3	4185.4	5014.8	5520.8	5509.6	4168.0
42.5°	4046.1	4031.2	4077.2	4031.2	3993.9	4163.0	4471.4	5149.1	5816.8	5724.8	4417.9
45°	4422.9	4375.6	4391.8	4395.5	4368.2	4430.3	4589.5	5246.0	6024.4	6014.5	4600.7
47.5°	4737.5	4738.7	4711.4	4690.2	4606.9	4669.1	4721.3	5307.0	6263.2	6247.0	4671.6
50°	4854.4	4838.2	4917.8	4963.8	4968.8	4841.9	4824.5	5340.5	6388.8	6317.9	4742.5
52.5°	4434.1	4449.0	4574.6	4848.1	5006.1	5019.7	4945.1	5410.2	6439.7	6424.8	4799.6
55°	3568.7	3640.8	3847.2	4163.0	4537.3	4948.9	5075.7	5482.3	6467.1	6454.7	5053.3
56°	3137.2	3193.1	3461.7	3709.2	4179.2	4691.5	4993.6	5559.4	6488.2	6546.7	5113.0
57.5°	2525.4	2590.1	2782.8	3063.8	3618.4	4201.6	4767.3	5464.9	6406.2	6428.5	5156.5
60°	1579.2	1585.4	1816.7	2001.9	2392.4	2961.9	3638.3	4754.9	5928.7	5896.4	4631.8
62.5°	1035.8	1037.0	1247.2	1398.9	1576.7	1707.2	2141.2	3153.3	4374.4	4317.2	3297.6
65°	727.4	743.6	906.5	1109.1	1181.3	1112.9	1099.2	1662.5	2443.3	2361.3	1771.9
67.5°	532.2	533.4	677.7	895.3	999.7	846.8	687.6	812.0	967.4	964.9	820.7
70°	351.9	366.8	477.5	669.0	788.3	680.2	562.0	580.7	615.5	615.5	610.5
72.5°	205.2	218.8	292.2	424.0	442.7	425.3	445.1	497.4	519.8	518.5	512.3
75°	116.9	123.1	139.3	176.6	220.1	259.9	327.0	376.8	399.1	412.8	396.7
77.5°	68.4	72.1	82.1	100.7	114.4	140.5	177.8	212.6	242.5	238.7	241.2
80°	36.1	36.1	46.0	59.7	79.6	99.5	118.1	138.0	154.2	157.9	161.6
82.5°	21.1	22.4	29.8	43.5	57.2	70.9	90.8	104.4	119.4	120.6	123.1
85°	11.2	12.4	18.7	28.6	38.5	43.5	44.8	42.3	46.0	43.5	49.7
87.5°	3.7	3.7	6.2	5.0	5.0	6.2	7.5	7.5	9.9	9.9	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°	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	1845.3	1845.3	1824.1	1784.3	1778.1	1761.9	1747.0	1745.8	1734.6	1724.6	1719.7
5°	1880.1	1841.5	1810.4	1774.4	1732.1	1712.2	1689.8	1665.0	1655.0	1665.0	1663.7
7.5°	1919.9	1887.5	1794.3	1727.1	1678.6	1658.7	1633.9	1607.8	1610.2	1610.2	1592.8
10°	1958.4	1914.9	1765.7	1679.9	1609.0	1594.1	1580.4	1590.3	1602.8	1605.3	1594.1
12.5°	2023.1	1924.8	1752.0	1632.6	1587.9	1555.5	1564.2	1591.6	1617.7	1610.2	1618.9
15°	2071.6	1933.5	1689.8	1584.1	1528.2	1543.1	1574.2	1592.8	1636.4	1631.4	1640.1
17.5°	2118.8	1938.5	1628.9	1519.5	1495.8	1536.9	1560.5	1614.0	1627.7	1657.5	1668.7
20°	2215.8	1948.5	1566.7	1479.7	1472.2	1519.5	1560.5	1585.4	1615.2	1641.3	1641.3
22.5°	2265.5	1943.5	1525.7	1427.5	1451.1	1480.9	1518.2	1560.5	1560.5	1585.4	1586.6
25°	2327.7	1923.6	1461.0	1402.6	1420.0	1448.6	1490.9	1476.0	1492.1	1492.1	1512.0
27.5°	2398.6	1881.3	1405.1	1357.8	1392.6	1423.7	1429.9	1420.0	1401.3	1398.9	1391.4
30°	2455.8	1829.1	1364.0	1342.9	1371.5	1388.9	1369.0	1347.9	1315.6	1313.1	1295.7
32.5°	2534.1	1764.4	1313.1	1305.6	1337.9	1339.2	1333.0	1300.6	1253.4	1233.5	1213.6
35°	2665.9	1727.1	1274.5	1285.7	1295.7	1291.9	1280.7	1245.9	1198.7	1190.0	1182.5
37.5°	2762.9	1699.8	1234.7	1248.4	1257.1	1262.1	1228.5	1190.0	1191.2	1173.8	1168.8
40°	2872.3	1682.4	1202.4	1208.6	1209.9	1226.0	1185.0	1166.3	1175.0	1163.9	1171.3
42.5°	3012.8	1687.3	1168.8	1163.9	1187.5	1181.3	1161.4	1136.5	1141.5	1107.9	1112.9
45°	3087.4	1720.9	1148.9	1126.5	1152.7	1151.4	1125.3	1101.7	1071.8	1007.2	1009.7
47.5°	3137.2	1729.6	1101.7	1086.8	1114.1	1130.3	1100.4	1045.7	1003.4	957.4	946.3
50°	3188.2	1745.8	1079.3	1048.2	1059.4	1098.0	1060.6	1008.4	967.4	926.4	932.6
52.5°	3232.9	1776.9	1035.8	989.8	1009.7	1051.9	1032.0	968.6	923.9	890.3	880.4
55°	3431.9	1846.5	962.4	902.7	950.0	1003.4	992.3	915.2	866.7	849.3	846.8
56°	3463.0	1849.0	923.9	872.9	916.4	987.3	973.6	891.5	848.0	820.7	821.9
57.5°	3467.9	1819.1	869.2	845.5	882.8	963.7	946.3	872.9	813.2	788.3	780.9
60°	3051.4	1420.0	800.8	785.8	829.4	891.5	885.3	821.9	754.8	726.2	739.8
62.5°	2080.3	1040.8	747.3	744.8	767.2	828.1	812.0	754.8	698.8	680.2	671.5
65°	1211.1	789.6	695.1	685.1	703.8	736.1	747.3	687.6	629.2	616.7	613.0
67.5°	715.0	652.8	627.9	611.8	605.6	625.4	634.2	599.3	540.9	523.5	538.4
70°	598.1	580.7	581.9	554.6	539.6	526.0	518.5	487.4	438.9	416.5	410.3
72.5°	516.0	508.6	503.6	478.7	465.0	434.0	401.6	370.5	334.5	315.8	317.1
75°	394.2	391.7	394.2	381.7	358.1	333.2	303.4	263.6	236.3	212.6	217.6
77.5°	235.0	242.5	246.2	241.2	231.3	208.9	190.2	164.1	138.0	119.4	116.9
80°	161.6	167.9	174.1	167.9	157.9	141.8	121.9	102.0	83.3	73.4	70.9
82.5°	123.1	129.3	133.0	126.8	114.4	97.0	83.3	69.6	54.7	44.8	42.3
85°	44.8	51.0	49.7	59.7	64.7	62.2	53.5	41.0	31.1	22.4	21.1
87.5°	12.4	11.2	12.4	12.4	12.4	11.2	9.9	9.9	9.9	6.2	5.0
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)