

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: P528084

Luminaire Tested: **GALN-SA3A-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528084
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-SA3A-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 8418 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

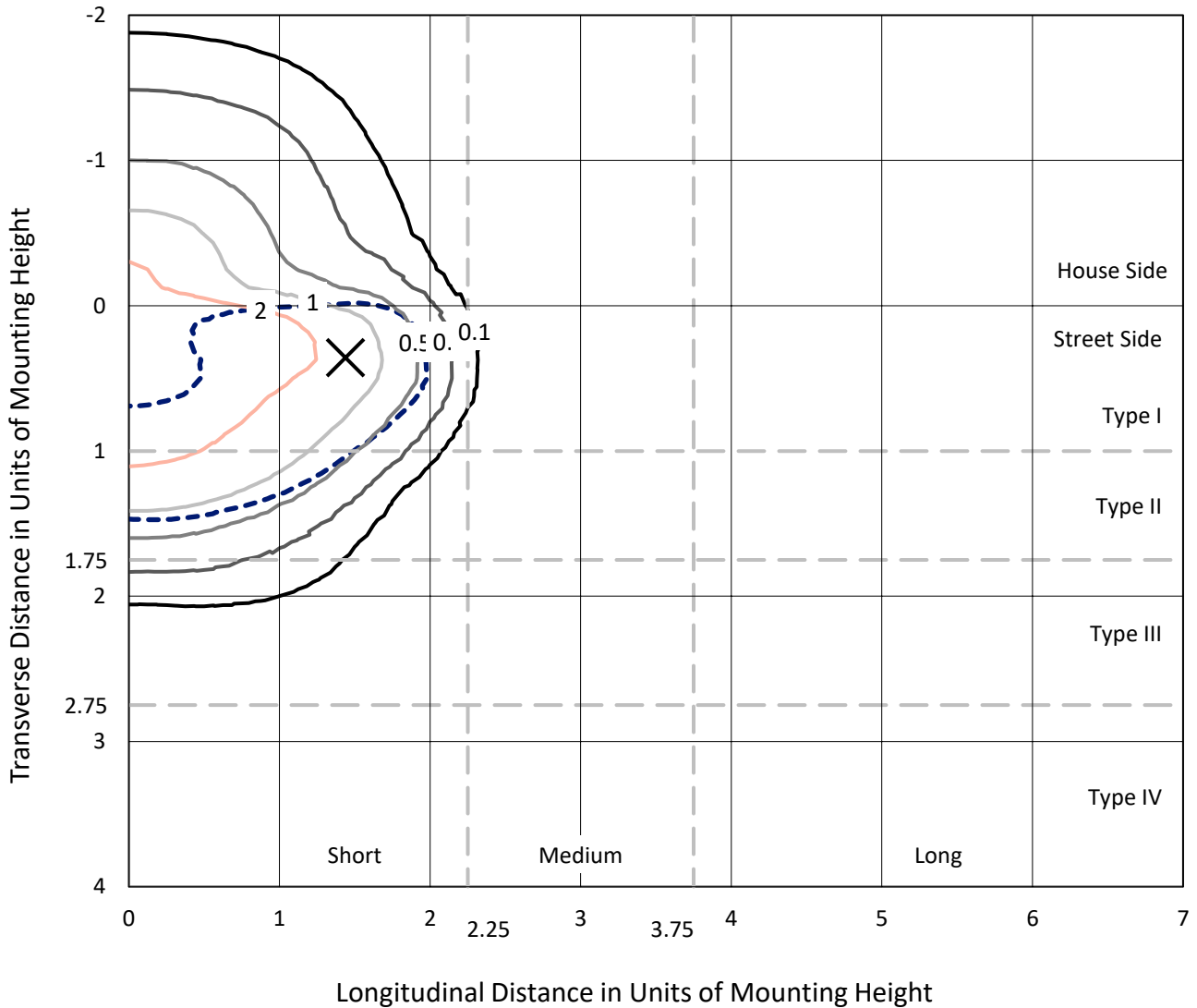
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

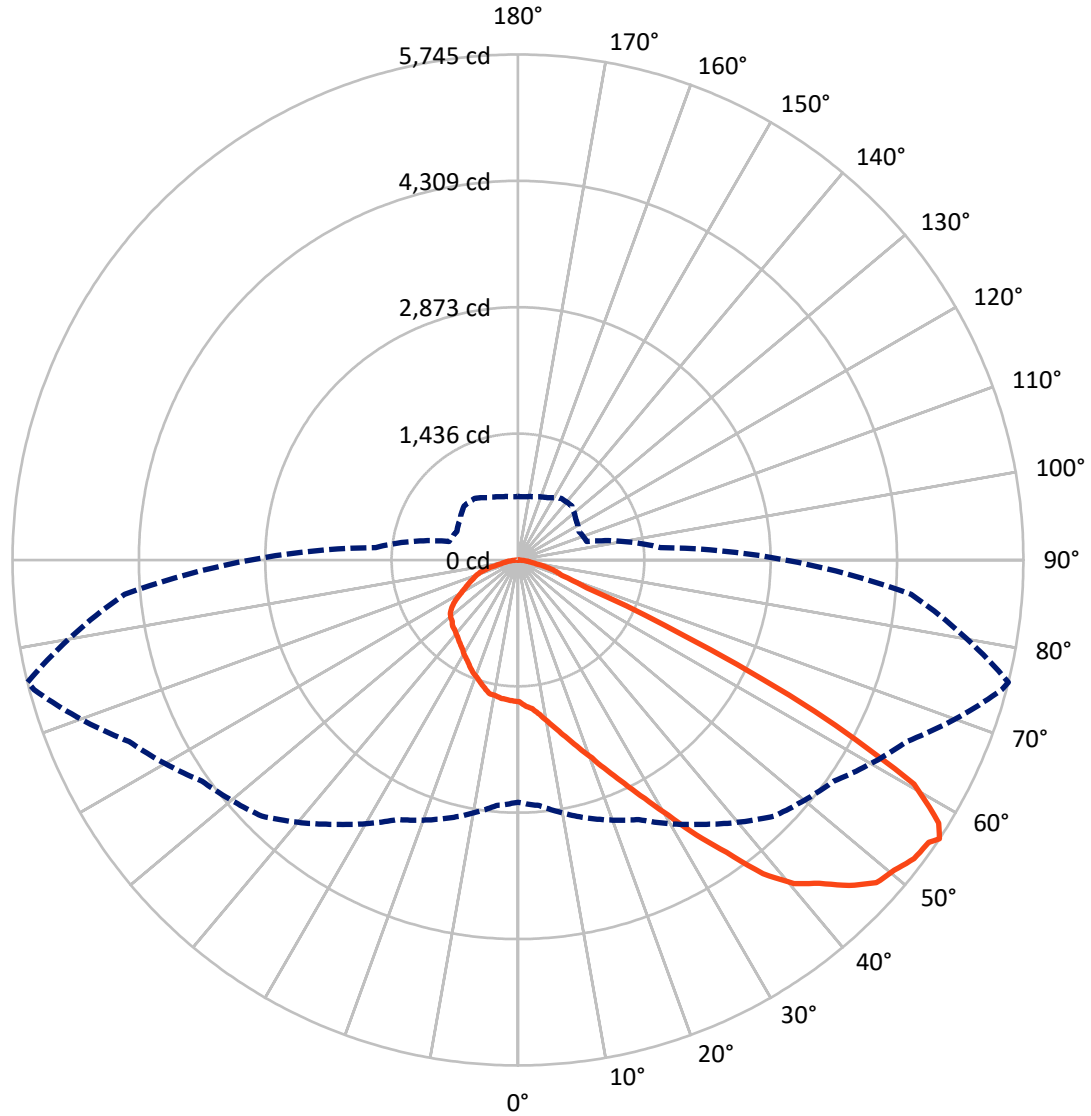
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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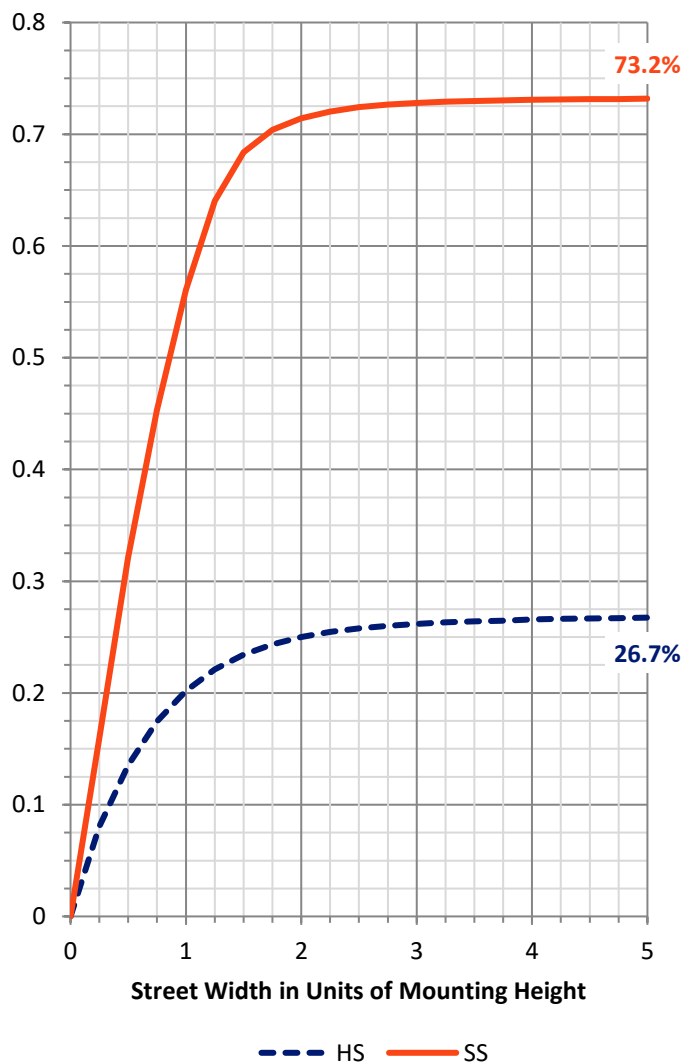
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2263.3	0.0	2263.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	6154.7	0.0	6154.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	8418.0	0.0	8418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	1.9
10°-20°	501.8	6.0
20°-30°	877.5	10.4
30°-40°	1373.9	16.3
40°-50°	1998.7	23.7
50°-60°	2196.7	26.1
60°-70°	980.5	11.6
70°-80°	283.2	3.4
80°-90°	45.9	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°	8418.0	100.0
0°-180°	8418.0	100.0

Coefficient of Utilization

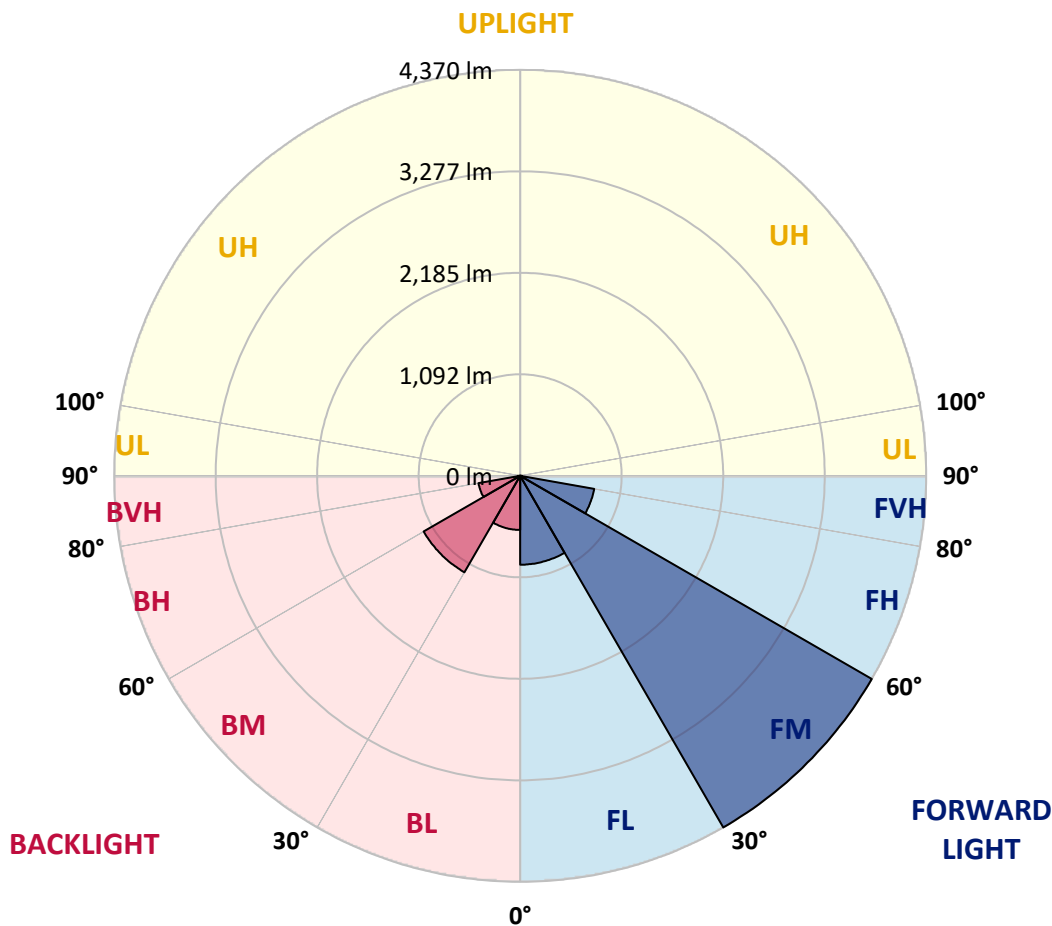


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.6	11.4			
FM (30°-60°)	4369.9	51.9			
FH (60°-80°)	808.3	9.6			G1/1800
FVH (80°-90°)	19.8	0.2			G1/100
BL (0°-30°)	582.4	6.9	B2/1000		
BM (30°-60°)	1199.4	14.2	B2/2500		
BH (60°-80°)	455.4	5.4	B1/500		G1/500
BVH (80°-90°)	26.2	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7
2.5°	1774.4	1746.0	1743.8	1736.2	1740.5	1720.9	1700.2	1672.9	1644.5	1662.0	1620.5
5°	1898.8	1860.6	1875.8	1849.7	1852.9	1826.7	1784.2	1752.5	1717.6	1696.9	1667.4
7.5°	1942.4	1945.7	1956.6	1952.2	1930.4	1930.4	1902.0	1846.4	1785.3	1773.3	1724.2
10°	2001.3	2002.4	1990.4	1993.7	2024.3	2010.1	1985.0	1961.0	1882.4	1868.2	1780.9
12.5°	2022.1	2002.4	2022.1	2039.5	2075.5	2095.2	2089.7	2072.3	1988.2	1978.4	1850.7
15°	2025.3	2013.3	2029.7	2069.0	2100.6	2183.6	2225.0	2213.0	2101.7	2102.8	1929.3
17.5°	2010.1	2026.4	2033.0	2066.8	2139.9	2217.4	2337.4	2353.8	2262.1	2248.0	2028.6
20°	2030.8	2018.8	2027.5	2058.1	2155.2	2276.3	2433.5	2541.5	2412.7	2402.9	2131.2
22.5°	2110.5	2094.1	2091.9	2111.6	2181.4	2306.9	2535.0	2729.2	2596.1	2601.5	2258.9
25°	2172.7	2181.4	2173.8	2172.7	2216.3	2352.7	2669.2	2952.9	2844.9	2813.2	2409.5
27.5°	2279.6	2300.3	2285.1	2305.8	2296.0	2421.5	2765.2	3200.6	3113.3	3070.8	2545.9
30°	2428.0	2438.9	2424.7	2424.7	2395.3	2517.5	2852.5	3459.2	3423.2	3365.4	2706.3
32.5°	2623.4	2639.7	2611.3	2595.0	2590.6	2660.5	3009.7	3714.6	3775.7	3726.6	2919.1
35°	2882.0	2872.2	2838.3	2823.0	2764.1	2879.8	3243.2	4008.1	4168.6	4081.3	3176.6
37.5°	3110.0	3094.8	3092.6	3007.5	3021.7	3116.6	3441.8	4230.8	4549.4	4524.3	3448.3
40°	3322.8	3337.0	3359.9	3311.9	3290.1	3394.9	3673.1	4401.0	4845.1	4835.3	3657.9
42.5°	3550.9	3537.8	3578.2	3537.8	3505.1	3653.5	3924.1	4518.8	5104.8	5024.1	3877.2
45°	3881.6	3840.1	3854.3	3857.5	3833.5	3888.1	4027.8	4604.0	5287.1	5278.3	4037.6
47.5°	4157.6	4158.7	4134.7	4116.2	4043.1	4097.6	4143.5	4657.4	5496.6	5482.4	4099.8
50°	4260.2	4246.0	4315.9	4356.2	4360.6	4249.3	4234.0	4686.9	5606.8	5544.6	4162.0
52.5°	3891.4	3904.5	4014.7	4254.8	4393.3	4405.4	4339.9	4748.0	5651.6	5638.5	4212.2
55°	3131.9	3195.2	3376.3	3653.5	3981.9	4343.2	4454.5	4811.3	5675.6	5664.6	4434.8
56°	2753.2	2802.3	3038.0	3255.2	3667.7	4117.3	4382.4	4879.0	5694.1	5745.4	4487.2
57.5°	2216.3	2273.1	2442.2	2688.8	3175.5	3687.3	4183.8	4796.0	5622.1	5641.7	4525.4
60°	1385.9	1391.3	1594.3	1756.9	2099.6	2599.3	3193.0	4172.9	5203.1	5174.7	4064.9
62.5°	909.0	910.1	1094.5	1227.6	1383.7	1498.3	1879.1	2767.4	3839.0	3788.8	2894.0
65°	638.4	652.6	795.5	973.4	1036.7	976.7	964.7	1459.0	2144.3	2072.3	1555.0
67.5°	467.1	468.1	594.7	785.7	877.4	743.1	603.5	712.6	849.0	846.8	720.2
70°	308.8	321.9	419.0	587.1	691.8	596.9	493.2	509.6	540.2	540.2	535.8
72.5°	180.1	192.1	256.4	372.1	388.5	373.2	390.7	436.5	456.1	455.0	449.6
75°	102.6	108.0	122.2	155.0	193.2	228.1	287.0	330.6	350.3	362.3	348.1
77.5°	60.0	63.3	72.0	88.4	100.4	123.3	156.0	186.6	212.8	209.5	211.7
80°	31.6	31.6	40.4	52.4	69.8	87.3	103.7	121.1	135.3	138.6	141.9
82.5°	18.6	19.6	26.2	38.2	50.2	62.2	79.7	91.7	104.8	105.9	108.0
85°	9.8	10.9	16.4	25.1	33.8	38.2	39.3	37.1	40.4	38.2	43.6
87.5°	3.3	3.3	5.5	4.4	4.4	5.5	6.5	6.5	8.7	8.7	8.7
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°	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7
2.5°	1619.4	1619.4	1600.9	1565.9	1560.5	1546.3	1533.2	1532.1	1522.3	1513.6	1509.2
5°	1650.0	1616.1	1588.9	1557.2	1520.1	1502.6	1483.0	1461.2	1452.4	1461.2	1460.1
7.5°	1684.9	1656.5	1574.7	1515.7	1473.2	1455.7	1433.9	1411.0	1413.2	1413.2	1397.9
10°	1718.7	1680.5	1549.6	1474.3	1412.1	1399.0	1387.0	1395.7	1406.6	1408.8	1399.0
12.5°	1775.5	1689.2	1537.6	1432.8	1393.5	1365.1	1372.8	1396.8	1419.7	1413.2	1420.8
15°	1818.0	1696.9	1483.0	1390.2	1341.1	1354.2	1381.5	1397.9	1436.1	1431.7	1439.4
17.5°	1859.5	1701.2	1429.5	1333.5	1312.8	1348.8	1369.5	1416.4	1428.4	1454.6	1464.4
20°	1944.6	1710.0	1375.0	1298.6	1292.0	1333.5	1369.5	1391.3	1417.5	1440.4	1440.4
22.5°	1988.2	1705.6	1339.0	1252.7	1273.5	1299.7	1332.4	1369.5	1369.5	1391.3	1392.4
25°	2042.8	1688.2	1282.2	1230.9	1246.2	1271.3	1308.4	1295.3	1309.5	1309.5	1327.0
27.5°	2105.0	1651.1	1233.1	1191.6	1222.2	1249.5	1254.9	1246.2	1229.8	1227.6	1221.1
30°	2155.2	1605.2	1197.1	1178.5	1203.6	1218.9	1201.5	1182.9	1154.5	1152.4	1137.1
32.5°	2224.0	1548.5	1152.4	1145.8	1174.2	1175.3	1169.8	1141.4	1100.0	1082.5	1065.1
35°	2339.6	1515.7	1118.5	1128.3	1137.1	1133.8	1124.0	1093.4	1052.0	1044.3	1037.8
37.5°	2424.7	1491.7	1083.6	1095.6	1103.2	1107.6	1078.1	1044.3	1045.4	1030.1	1025.8
40°	2520.8	1476.5	1055.2	1060.7	1061.8	1076.0	1040.0	1023.6	1031.2	1021.4	1028.0
42.5°	2644.1	1480.8	1025.8	1021.4	1042.1	1036.7	1019.2	997.4	1001.8	972.3	976.7
45°	2709.6	1510.3	1008.3	988.7	1011.6	1010.5	987.6	966.8	940.7	883.9	886.1
47.5°	2753.2	1517.9	966.8	953.7	977.8	991.9	965.8	917.7	880.6	840.3	830.4
50°	2797.9	1532.1	947.2	919.9	929.7	963.6	930.8	885.0	849.0	813.0	818.4
52.5°	2837.2	1559.4	909.0	868.6	886.1	923.2	905.7	850.1	810.8	781.3	772.6
55°	3011.8	1620.5	844.6	792.2	833.7	880.6	870.8	803.2	760.6	745.3	743.1
56°	3039.1	1622.7	810.8	766.1	804.2	866.4	854.4	782.4	744.2	720.2	721.3
57.5°	3043.5	1596.5	762.8	742.0	774.8	845.7	830.4	766.1	713.7	691.8	685.3
60°	2677.9	1246.2	702.8	689.7	727.9	782.4	777.0	721.3	662.4	637.3	649.3
62.5°	1825.7	913.4	655.8	653.7	673.3	726.8	712.6	662.4	613.3	596.9	589.3
65°	1062.9	692.9	610.0	601.3	617.6	646.0	655.8	603.5	552.2	541.3	538.0
67.5°	627.5	572.9	551.1	536.9	531.4	548.9	556.5	526.0	474.7	459.4	472.5
70°	524.9	509.6	510.7	486.7	473.6	461.6	455.0	427.8	385.2	365.6	360.1
72.5°	452.9	446.3	442.0	420.1	408.1	380.8	352.5	325.2	293.5	277.2	278.3
75°	345.9	343.7	345.9	335.0	314.3	292.5	266.3	231.3	207.3	186.6	191.0
77.5°	206.2	212.8	216.1	211.7	203.0	183.3	167.0	144.0	121.1	104.8	102.6
80°	141.9	147.3	152.8	147.3	138.6	124.4	106.9	89.5	73.1	64.4	62.2
82.5°	108.0	113.5	116.8	111.3	100.4	85.1	73.1	61.1	48.0	39.3	37.1
85°	39.3	44.7	43.6	52.4	56.7	54.6	46.9	36.0	27.3	19.6	18.6
87.5°	10.9	9.8	10.9	10.9	10.9	9.8	8.7	8.7	8.7	5.5	4.4
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)