

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: P528632

Luminaire Tested: **GALN-SA3D-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528632
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-SA3D-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 16972 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

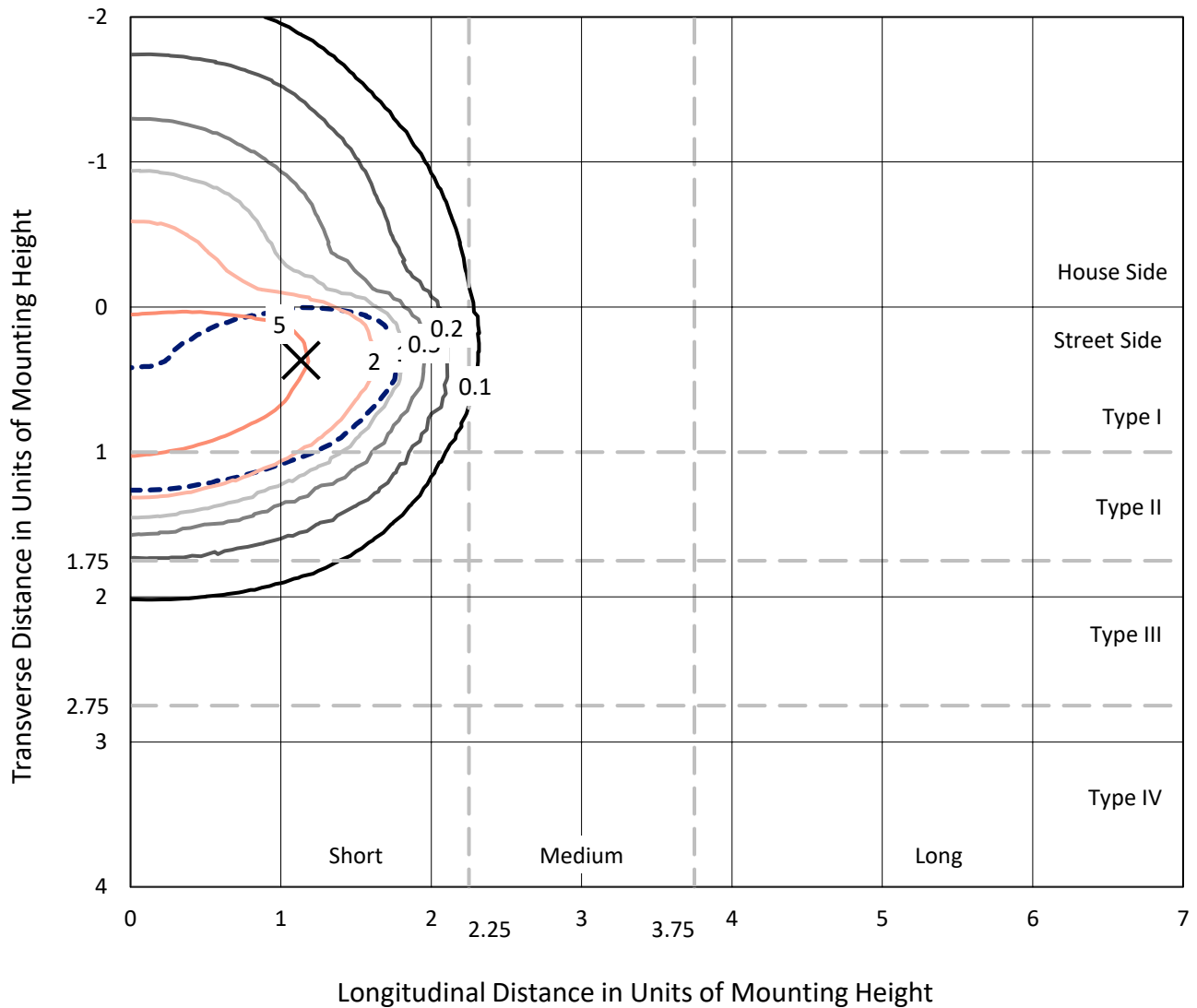
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

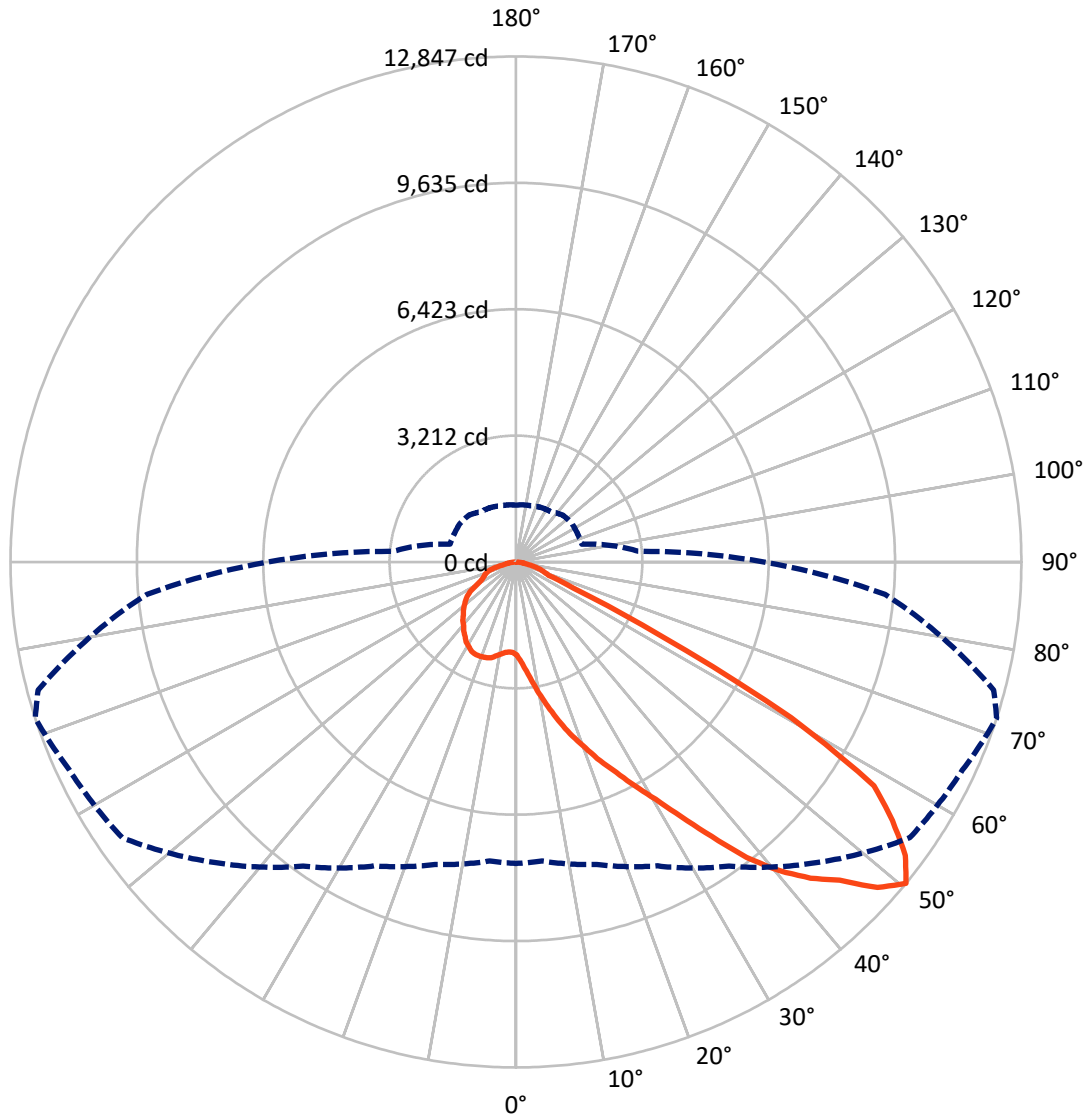
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

REPORT NUMBER: P528632
CATALOG NUMBER: GALN-SA3D-727-U-T2R-GRSWH

Luminous Intensity Polar Plot



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

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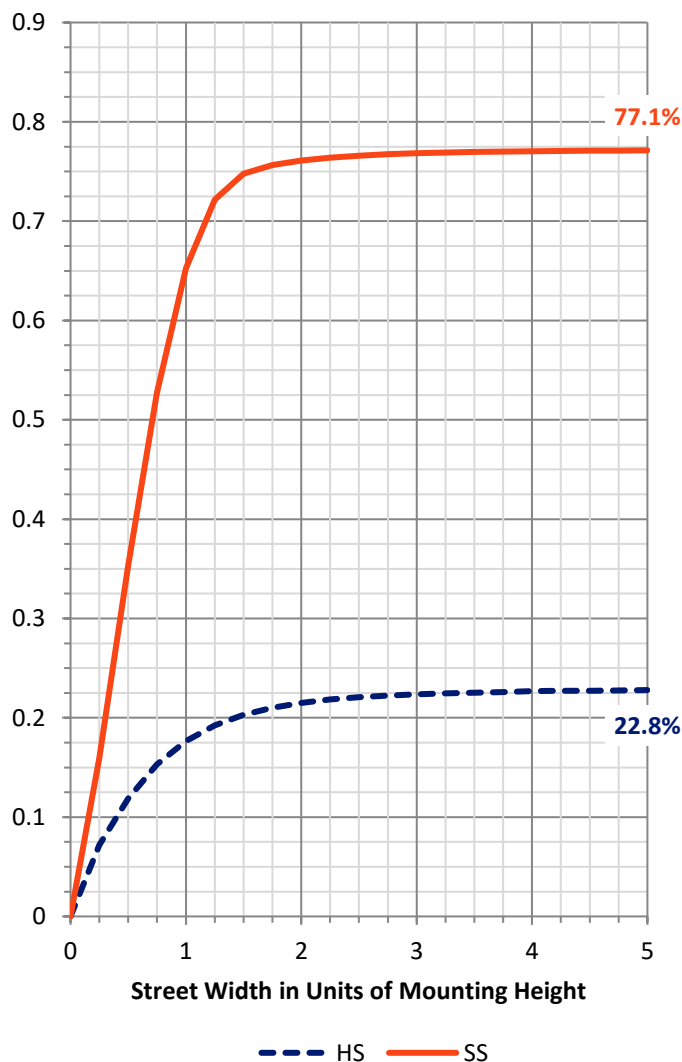
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3888.4	0.0	3888.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13083.6	0.0	13083.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	16972.0	0.0	16972.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.9	1.6
10°-20°	1038.9	6.1
20°-30°	2014.4	11.9
30°-40°	3337.1	19.7
40°-50°	4669.4	27.5
50°-60°	3939.2	23.2
60°-70°	1200.7	7.1
70°-80°	421.2	2.5
80°-90°	73.2	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°	16972.0	100.0
0°-180°	16972.0	100.0

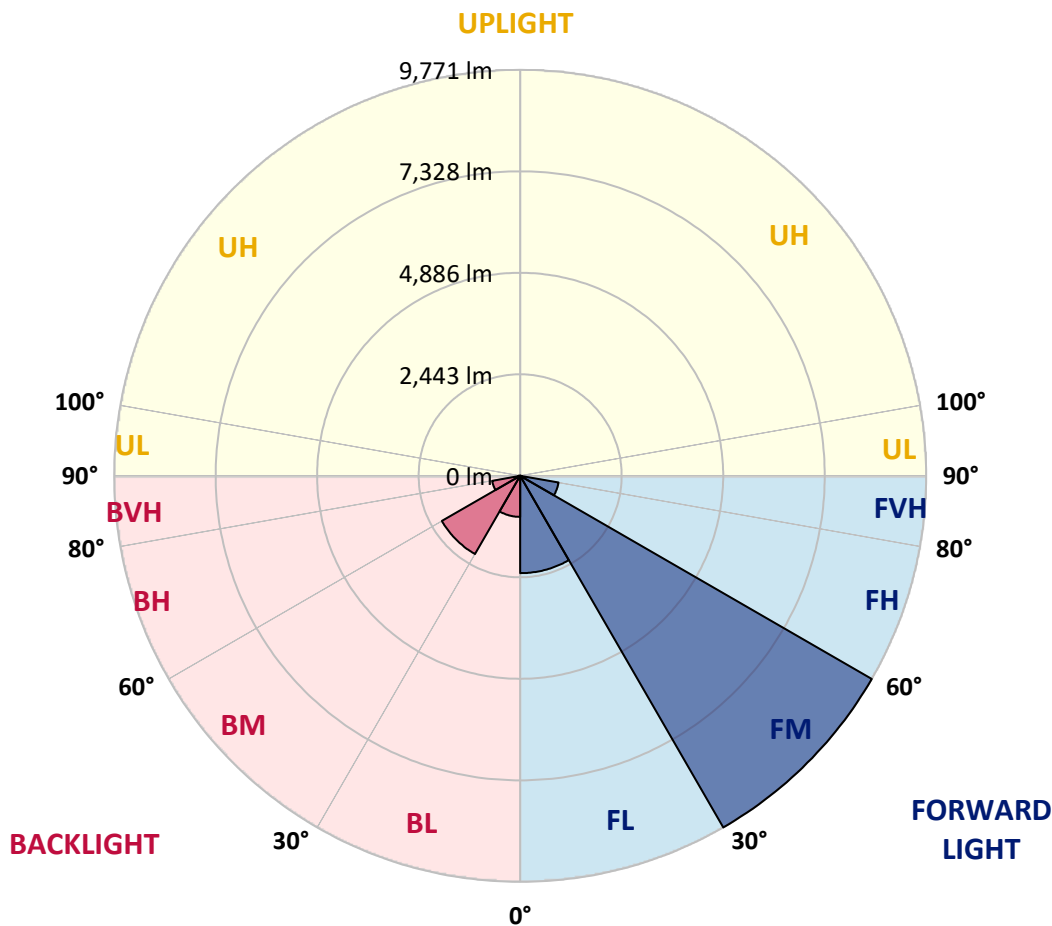


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 CATALOG NUMBER: GALN-SA3D-727-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.7	13.8			
FM (30°-60°)	9771.2	57.6			
FH (60°-80°)	936.8	5.5			G1/1800
FVH (80°-90°)	32.8	0.2			G1/100
BL (0°-30°)	988.4	5.8	B2/1000		
BM (30°-60°)	2174.4	12.8	B2/2500		
BH (60°-80°)	685.1	4.0	B2/1000		G2/1000
BVH (80°-90°)	40.4	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6
2.5°	3038.9	3020.0	2963.3	2944.4	2877.2	2755.4	2713.4	2589.5	2537.0	2488.7	2432.0
5°	3843.2	3755.0	3748.7	3641.6	3486.2	3395.9	3127.1	2946.5	2780.6	2696.6	2541.2
7.5°	4355.7	4357.8	4357.8	4269.6	4145.7	3916.7	3675.2	3349.7	3099.8	2975.9	2711.3
10°	4842.9	4800.9	4777.8	4769.4	4685.4	4462.8	4204.5	3801.2	3458.9	3314.0	2839.4
12.5°	5187.3	5151.6	5204.1	5176.8	5115.9	4971.0	4727.4	4267.5	3839.0	3643.7	3045.2
15°	5351.1	5376.3	5418.3	5493.9	5466.6	5412.0	5143.2	4746.3	4248.6	4028.1	3227.9
17.5°	5603.1	5533.8	5584.2	5678.8	5754.4	5729.2	5575.8	5092.8	4653.9	4383.0	3473.6
20°	5779.6	5739.7	5764.9	5874.1	5930.8	6073.6	5993.8	5546.4	5042.4	4756.8	3763.4
22.5°	6283.6	6224.8	6142.9	6159.7	6180.7	6281.5	6300.4	6044.2	5493.9	5191.5	4038.6
25°	6905.2	6850.6	6754.0	6655.3	6594.4	6575.5	6640.6	6434.8	5926.6	5613.6	4334.7
27.5°	7589.9	7497.5	7436.6	7232.9	7069.0	7043.8	7012.3	6901.0	6439.0	6100.9	4668.6
30°	8255.6	8182.1	8100.2	7774.7	7604.6	7577.3	7421.9	7453.4	6995.5	6619.6	5046.6
32.5°	8759.6	8765.9	8579.0	8333.3	8173.7	8028.8	7972.1	8062.4	7709.6	7407.2	5468.7
35°	9167.1	9186.0	9007.5	8784.8	8612.6	8713.4	8688.2	8730.2	8562.2	8192.6	5960.2
37.5°	9564.0	9469.5	9278.4	9171.3	9081.0	9246.9	9461.1	9496.8	9528.3	9093.6	6531.4
40°	9629.1	9637.5	9526.2	9601.8	9488.4	9738.3	10236.0	10189.8	10317.9	9937.8	7150.9
42.5°	9536.7	9555.6	9599.7	9706.8	9979.8	10280.1	11019.4	10830.4	10985.8	10647.7	7753.7
45°	9385.5	9307.8	9362.4	9769.8	10242.3	10910.2	11735.5	11588.5	11538.1	11254.6	8471.9
47.5°	8663.0	8742.8	8913.0	9414.9	10124.7	11019.4	12243.8	12210.2	12361.4	12161.9	9125.1
50°	7661.3	7629.8	7957.4	8522.3	9438.0	10805.2	12216.5	12521.0	12846.5	12569.3	9417.0
52.5°	5737.6	5905.6	6187.0	6888.4	8194.7	9637.5	11620.0	12128.3	12392.9	12334.1	9181.8
55°	3626.9	3677.3	3847.4	4681.2	5857.3	7734.8	9960.9	11139.1	11611.6	11832.1	8965.5
57.5°	1762.0	1667.5	1875.4	2545.4	3383.3	5202.0	7682.3	9702.6	10729.6	11128.6	8495.0
60°	919.9	955.6	1037.5	1276.9	1749.4	2700.8	4788.3	6466.3	8035.1	8648.3	6439.0
62.5°	762.3	774.9	829.6	949.3	1163.5	1554.1	2444.6	3152.3	4097.4	4649.7	3662.6
65°	646.8	653.1	711.9	791.7	928.3	1094.2	1258.0	1316.8	1594.0	1636.0	1302.1
67.5°	539.7	546.0	609.0	684.6	772.8	817.0	859.0	854.8	886.3	873.7	871.6
70°	415.8	422.1	487.2	567.0	611.1	585.9	716.1	745.5	758.1	768.6	785.4
72.5°	300.3	312.9	363.3	420.0	396.9	455.7	590.1	634.2	651.0	657.3	678.3
75°	218.4	222.6	235.2	218.4	252.0	317.1	415.8	470.4	491.4	497.7	529.2
77.5°	96.6	98.7	100.8	126.0	161.7	197.4	247.8	291.9	321.3	329.7	338.1
80°	50.4	52.5	65.1	86.1	115.5	144.9	180.6	205.8	224.7	226.8	235.2
82.5°	31.5	33.6	46.2	60.9	81.9	107.1	132.3	153.3	168.0	170.1	172.2
85°	14.7	18.9	27.3	37.8	54.6	69.3	71.4	60.9	65.1	67.2	63.0
87.5°	4.2	6.3	8.4	6.3	8.4	8.4	10.5	12.6	12.6	12.6	14.7
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°	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6
2.5°	2400.4	2381.5	2308.0	2280.7	2209.3	2221.9	2184.1	2182.0	2173.6	2171.5	2169.4
5°	2459.3	2400.4	2312.2	2245.0	2205.1	2200.9	2173.6	2173.6	2182.0	2188.3	2173.6
7.5°	2555.9	2488.7	2339.5	2276.5	2240.8	2234.5	2215.6	2200.9	2219.8	2213.5	2196.7
10°	2667.2	2549.6	2392.0	2337.4	2278.6	2263.9	2263.9	2270.2	2238.7	2249.2	2232.4
12.5°	2791.1	2633.6	2459.3	2396.2	2326.9	2318.5	2314.3	2268.1	2284.9	2276.5	2234.5
15°	2948.6	2730.2	2545.4	2438.3	2379.4	2341.6	2287.0	2278.6	2268.1	2247.1	2228.2
17.5°	3118.7	2835.2	2585.3	2450.9	2362.6	2335.3	2293.3	2249.2	2217.7	2221.9	2207.2
20°	3263.6	2931.8	2600.0	2463.5	2350.0	2297.5	2232.4	2205.1	2171.5	2169.4	2167.3
22.5°	3435.8	3062.0	2621.0	2429.9	2312.2	2257.6	2213.5	2165.2	2142.1	2112.7	2127.4
25°	3641.6	3112.4	2625.2	2411.0	2284.9	2188.3	2165.2	2112.7	2104.3	2062.3	2070.7
27.5°	3790.7	3139.7	2591.6	2352.1	2221.9	2148.4	2106.4	2068.6	2053.9	2022.4	2014.0
30°	3990.2	3181.7	2520.2	2278.6	2158.9	2077.0	2051.8	2043.4	2001.4	1967.8	1963.6
32.5°	4217.1	3209.0	2474.0	2203.0	2093.8	2030.8	2043.4	2003.5	1951.0	1921.6	1913.2
35°	4397.7	3219.5	2358.4	2116.9	2049.7	2009.8	1995.1	1986.7	1911.1	1883.8	1862.8
37.5°	4672.8	3196.4	2261.8	2056.0	2001.4	1986.7	1974.1	1917.4	1831.3	1791.4	1762.0
40°	4994.1	3190.1	2137.9	1969.9	1955.2	1972.0	1934.2	1846.0	1726.3	1682.2	1661.2
42.5°	5302.8	3234.2	2060.2	1923.7	1904.8	1911.1	1858.6	1726.3	1667.5	1642.3	1608.7
45°	5819.5	3326.6	1932.1	1852.3	1843.9	1839.7	1776.7	1638.1	1604.5	1573.0	1566.7
47.5°	6285.7	3265.7	1850.2	1778.8	1787.2	1764.1	1629.7	1585.6	1547.8	1516.3	1505.8
50°	6313.0	3120.8	1734.7	1722.1	1724.2	1684.3	1556.2	1526.8	1478.5	1457.5	1442.8
52.5°	6170.2	2883.5	1627.6	1631.8	1638.1	1573.0	1465.9	1444.9	1405.0	1375.6	1367.2
55°	5769.1	2513.9	1522.6	1539.4	1556.2	1432.3	1398.7	1346.2	1314.7	1272.7	1274.8
57.5°	5082.3	2024.5	1375.6	1402.9	1438.6	1302.1	1276.9	1211.8	1165.6	1132.0	1127.8
60°	3406.4	1440.7	1155.1	1165.6	1245.4	1190.8	1188.7	1123.6	1060.6	1031.2	1014.4
62.5°	2009.8	1100.5	997.6	987.1	985.0	1016.5	1069.0	1045.9	964.0	907.3	924.1
65°	1052.2	951.4	928.3	892.6	871.6	863.2	903.1	913.6	859.0	798.0	793.8
67.5°	884.2	884.2	865.3	852.7	823.3	787.5	762.3	728.7	720.3	703.5	682.5
70°	804.4	825.4	819.1	789.6	764.4	724.5	659.4	604.8	552.3	533.4	546.0
72.5°	701.4	722.4	722.4	707.7	674.1	613.2	550.2	487.2	443.1	409.5	405.3
75°	539.7	550.2	575.4	558.6	514.5	476.7	411.6	346.5	304.5	273.0	266.7
77.5°	344.4	361.2	361.2	359.1	327.6	291.9	249.9	203.7	172.2	149.1	142.8
80°	228.9	239.4	247.8	239.4	218.4	191.1	159.6	128.1	105.0	86.1	81.9
82.5°	168.0	180.6	186.9	178.5	157.5	136.5	113.4	90.3	67.2	52.5	48.3
85°	65.1	67.2	75.6	90.3	88.2	86.1	69.3	50.4	37.8	27.3	25.2
87.5°	16.8	14.7	16.8	16.8	14.7	12.6	12.6	12.6	12.6	6.3	8.4
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)