

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: P528815

Luminaire Tested: **GALN-SA3D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10959 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

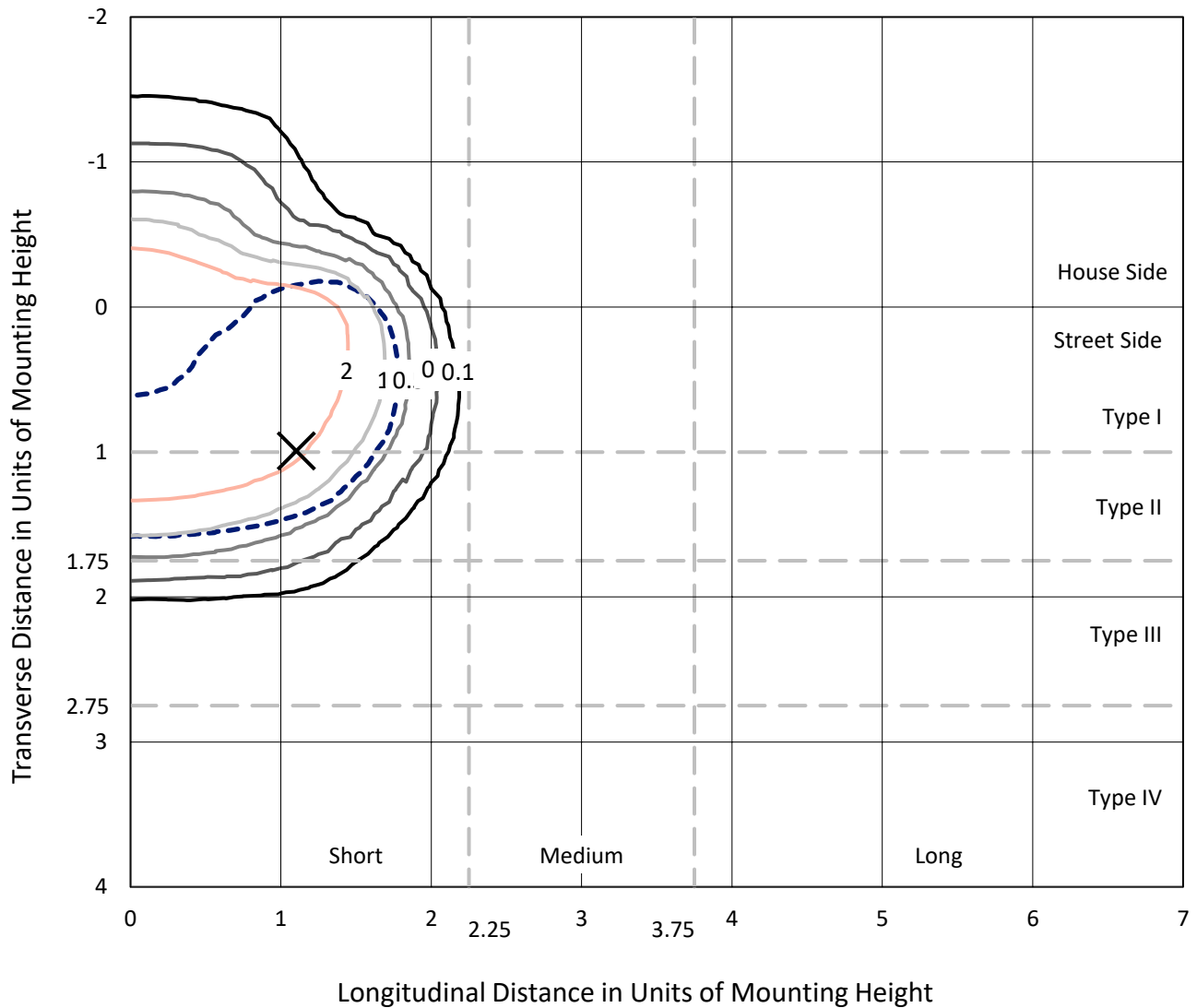
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

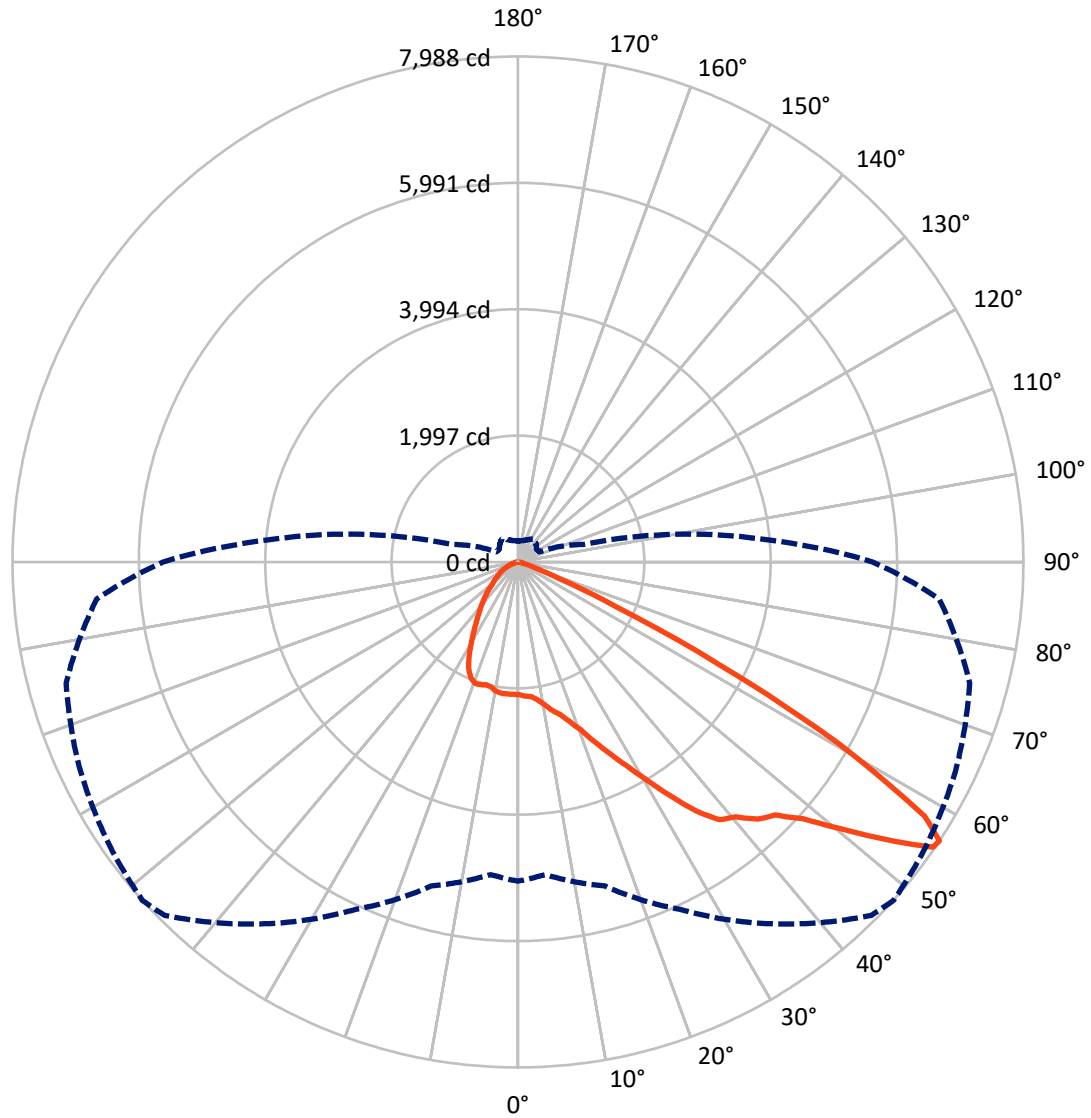
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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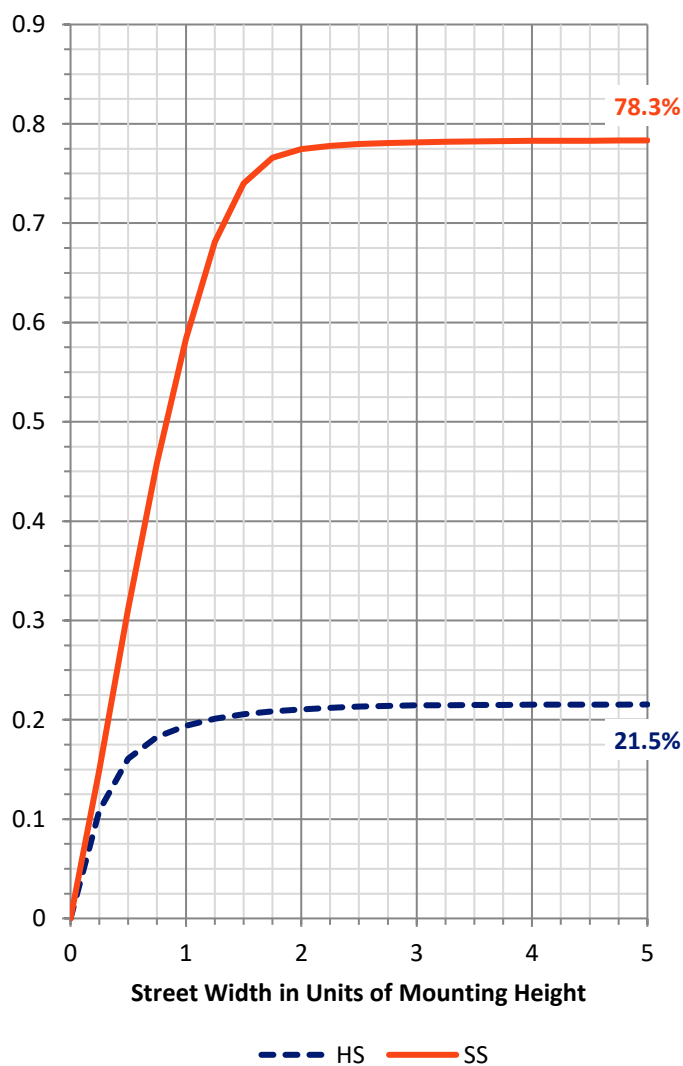
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2383.4	0.0	2383.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8575.6	0.0	8575.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	10959.0	0.0	10959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.9
10°-20°	651.6	5.9
20°-30°	1181.9	10.8
30°-40°	1856.6	16.9
40°-50°	2708.4	24.7
50°-60°	3263.1	29.8
60°-70°	955.4	8.7
70°-80°	121.2	1.1
80°-90°	17.0	0.2
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°	10959.0	100.0
0°-180°	10959.0	100.0

Coefficient of Utilization

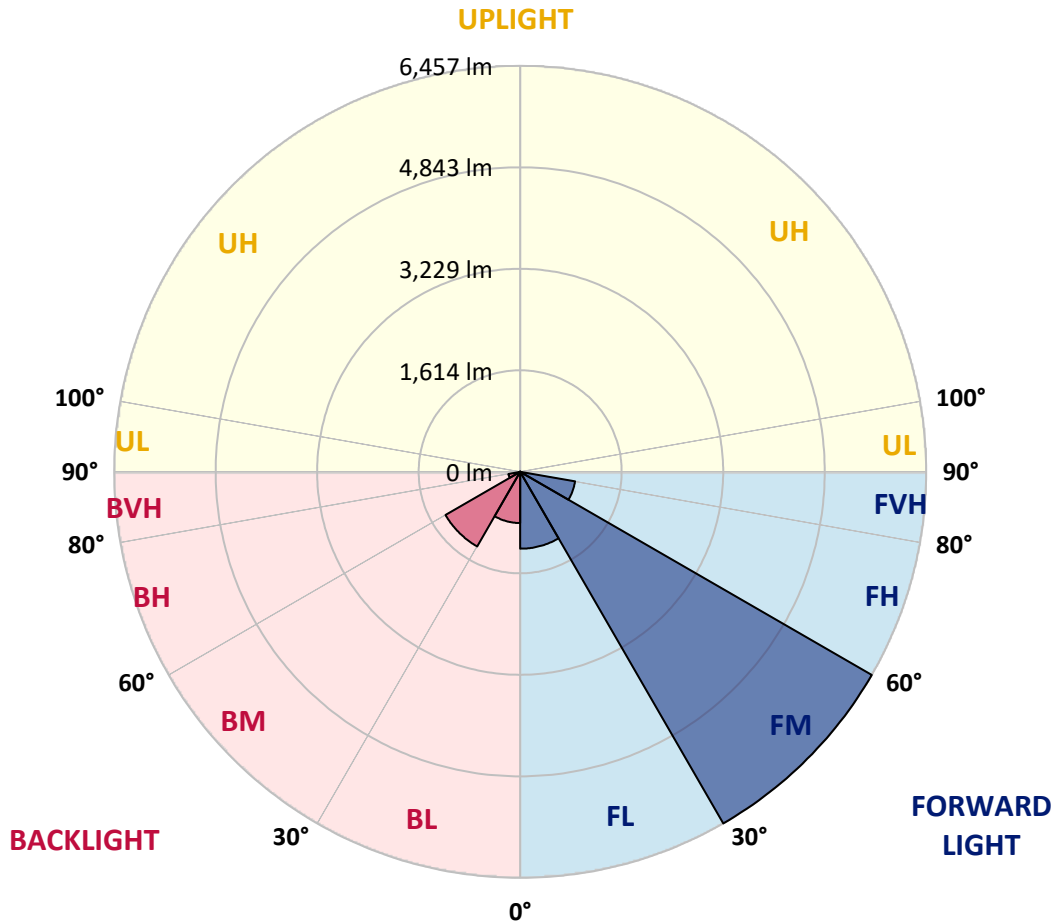


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.8	11.2			
FM (30°-60°)	6457.1	58.9			
FH (60°-80°)	887.2	8.1			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	814.6	7.4	B2/1000		
BM (30°-60°)	1370.9	12.5	B2/2500		
BH (60°-80°)	189.4	1.7	B1/500		G1/500
BVH (80°-90°)	8.5	0.1			G0/10
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°	48°	55°	65°	75°	85°
0°	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2
2.5°	2131.1	2121.1	2121.1	2105.1	2123.1	2115.1	2121.1	2101.2	2121.1	2091.2	2115.1
5°	2141.1	2143.1	2135.1	2145.1	2145.1	2157.0	2137.1	2155.0	2165.0	2143.1	2133.1
7.5°	2192.9	2196.9	2194.9	2187.0	2202.9	2200.9	2198.9	2185.0	2189.0	2181.0	2169.0
10°	2294.7	2292.7	2302.7	2282.7	2270.8	2284.7	2288.7	2266.8	2250.8	2244.8	2206.9
12.5°	2442.4	2418.4	2404.5	2384.5	2390.5	2370.5	2406.5	2368.5	2360.6	2324.6	2286.7
15°	2562.1	2558.1	2560.1	2528.2	2492.3	2500.2	2500.2	2480.3	2468.3	2424.4	2370.5
17.5°	2807.5	2723.7	2741.7	2701.8	2671.8	2669.8	2651.9	2655.9	2623.9	2532.2	2450.4
20°	2999.1	2963.2	2935.2	2867.4	2821.5	2835.5	2827.5	2807.5	2797.5	2677.8	2562.1
22.5°	3170.7	3182.7	3136.8	3118.8	3055.0	3060.9	3076.9	3058.9	2983.1	2859.4	2687.8
25°	3412.1	3398.2	3336.3	3314.4	3254.5	3276.4	3338.3	3324.3	3276.4	3053.0	2785.6
27.5°	3697.5	3649.6	3661.6	3561.8	3503.9	3565.8	3639.6	3709.4	3573.8	3280.4	2901.3
30°	3899.0	3849.1	3845.1	3841.1	3827.2	3899.0	3984.8	4048.7	3938.9	3507.9	3092.9
32.5°	3998.8	4010.8	4044.7	4032.7	4154.4	4302.1	4391.9	4483.7	4346.0	3879.1	3346.3
35°	4264.2	4188.3	4264.2	4272.1	4397.9	4711.1	4824.9	5044.4	5010.4	4403.8	3655.6
37.5°	4419.8	4413.8	4423.8	4499.6	4621.3	5008.5	5170.1	5339.7	5275.8	4719.1	4040.7
40°	4677.2	4693.2	4691.2	4749.1	4882.7	5231.9	5297.8	5435.5	5441.5	5156.1	4607.4
42.5°	5090.3	5026.4	4984.5	5044.4	5231.9	5425.5	5557.2	5529.3	5726.8	5686.9	5335.7
45°	5461.4	5499.3	5437.5	5537.2	5605.1	5708.8	5704.8	5764.7	6016.1	6205.7	5884.4
47.5°	5808.6	5832.6	5862.5	5930.3	6078.0	6093.9	6060.0	6034.1	6381.3	6576.8	6309.5
50°	6016.1	6038.1	6177.8	6299.5	6574.8	6610.8	6630.7	6564.9	6800.3	6822.3	6710.5
52.5°	5960.3	5984.2	6179.8	6580.8	7019.8	7349.1	7289.2	7177.5	7163.5	7249.3	7081.7
55°	5465.4	5443.4	5712.8	6337.4	7159.5	7949.7	7957.7	7839.9	7614.4	7556.6	7025.8
56°	5044.4	4958.6	5301.8	6056.0	6979.9	7897.8	7987.6	7861.9	7650.4	7391.0	6680.6
57.5°	4132.5	4214.3	4555.5	5180.1	6359.3	7524.7	7576.5	7546.6	7387.0	6952.0	5878.4
60°	2278.7	2422.4	2723.7	3488.0	4527.6	5774.7	5816.6	6060.0	6090.0	5323.7	4044.7
62.5°	967.8	951.8	1265.1	1827.8	2578.1	3486.0	3563.8	3813.2	3859.1	3068.9	2029.3
65°	393.1	415.0	572.7	919.9	1362.9	1588.3	1698.1	1779.9	1931.5	1267.1	748.3
67.5°	259.4	257.4	337.2	524.8	734.3	708.4	708.4	748.3	692.4	516.8	323.3
70°	185.6	191.6	241.4	363.2	456.9	339.2	325.3	311.3	353.2	341.2	261.4
72.5°	121.7	129.7	161.6	217.5	237.5	185.6	185.6	223.5	291.3	275.4	213.5
75°	79.8	81.8	99.8	125.7	117.7	95.8	105.8	149.7	211.5	203.5	151.7
77.5°	53.9	55.9	67.8	81.8	65.8	53.9	57.9	75.8	103.8	103.8	79.8
80°	20.0	21.9	27.9	25.9	29.9	37.9	41.9	51.9	61.9	61.9	53.9
82.5°	0.0	2.0	6.0	14.0	21.9	29.9	33.9	39.9	45.9	51.9	49.9
85°	0.0	2.0	6.0	10.0	16.0	18.0	20.0	14.0	12.0	12.0	10.0
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	2.0	2.0
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°	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2
2.5°	2093.2	2091.2	2091.2	2085.2	2097.2	2091.2	2095.2	2093.2	2067.2	2087.2	2073.2
5°	2115.1	2129.1	2107.1	2103.2	2087.2	2093.2	2093.2	2073.2	2091.2	2089.2	2085.2
7.5°	2171.0	2147.0	2123.1	2099.2	2095.2	2089.2	2067.2	2059.3	2073.2	2057.3	2081.2
10°	2194.9	2198.9	2163.0	2131.1	2101.2	2059.3	2029.3	2011.4	1989.4	2013.4	2027.3
12.5°	2304.7	2264.8	2202.9	2153.0	2051.3	2009.4	1979.4	1971.5	2009.4	2017.3	2003.4
15°	2342.6	2336.6	2256.8	2145.1	2039.3	1989.4	1995.4	1979.4	1983.4	1963.5	1967.5
17.5°	2420.4	2352.6	2258.8	2119.1	2037.3	2025.3	1989.4	1925.6	1889.6	1873.7	1887.6
20°	2506.2	2440.4	2304.7	2129.1	2055.3	2023.3	1905.6	1827.8	1754.0	1714.0	1716.0
22.5°	2582.0	2500.2	2284.7	2133.1	2071.2	1939.5	1797.9	1644.2	1552.4	1490.6	1492.6
25°	2673.8	2558.1	2292.7	2141.1	2029.3	1805.8	1602.3	1452.7	1342.9	1301.0	1315.0
27.5°	2725.7	2594.0	2336.6	2159.0	1919.6	1616.3	1396.8	1257.1	1193.2	1173.3	1171.3
30°	2881.4	2673.8	2390.5	2123.1	1736.0	1412.7	1209.2	1123.4	1061.6	1043.6	1047.6
32.5°	3112.8	2819.5	2460.3	2029.3	1548.4	1231.2	1087.5	1023.6	965.8	931.9	927.9
35°	3306.4	3068.9	2534.2	1883.7	1330.9	1091.5	1001.7	921.9	834.1	796.2	786.2
37.5°	3675.5	3350.3	2518.2	1664.2	1123.4	987.7	909.9	812.1	736.3	684.4	678.4
40°	4166.4	3679.5	2440.4	1396.8	969.8	895.9	812.1	718.3	624.6	580.7	576.7
42.5°	4763.0	4082.6	2298.7	1125.4	816.1	804.1	728.3	620.6	536.8	504.8	506.8
45°	5247.9	4427.8	2155.0	903.9	702.4	714.4	648.5	546.7	488.9	462.9	462.9
47.5°	5678.9	4661.3	1999.4	746.3	596.6	624.6	566.7	506.8	456.9	437.0	433.0
50°	6093.9	4898.7	1843.7	604.6	508.8	536.8	530.8	482.9	443.0	419.0	421.0
52.5°	6353.4	4936.6	1646.2	494.9	445.0	476.9	496.9	453.0	409.1	395.1	391.1
55°	6036.1	4447.7	1277.1	407.1	377.1	419.0	456.9	407.1	373.1	349.2	347.2
56°	5609.1	3976.8	1067.5	375.1	357.2	403.1	443.0	389.1	351.2	337.2	327.2
57.5°	4749.1	3254.5	788.2	333.2	331.2	375.1	421.0	371.1	327.2	315.3	315.3
60°	2961.2	1831.8	476.9	279.4	287.3	333.2	379.1	331.2	291.3	291.3	297.3
62.5°	1348.9	762.2	289.3	237.5	247.4	287.3	337.2	299.3	277.4	299.3	303.3
65°	458.9	329.2	209.5	189.6	195.5	237.5	289.3	303.3	301.3	315.3	323.3
67.5°	257.4	211.5	175.6	157.6	153.6	175.6	237.5	303.3	291.3	285.3	289.3
70°	217.5	179.6	155.6	139.7	133.7	141.7	183.6	229.5	205.5	199.5	195.5
72.5°	175.6	149.7	135.7	125.7	107.8	91.8	83.8	87.8	97.8	103.8	113.7
75°	123.7	113.7	113.7	101.8	77.8	57.9	45.9	37.9	25.9	18.0	20.0
77.5°	69.8	69.8	71.8	61.9	49.9	37.9	27.9	20.0	10.0	4.0	2.0
80°	47.9	51.9	55.9	49.9	41.9	33.9	23.9	14.0	6.0	0.0	0.0
82.5°	47.9	53.9	57.9	49.9	41.9	31.9	23.9	14.0	6.0	2.0	0.0
85°	10.0	12.0	14.0	16.0	23.9	23.9	18.0	12.0	6.0	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0
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)