

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: P322378

Luminaire Tested: **GLEON-SA4D-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16767 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

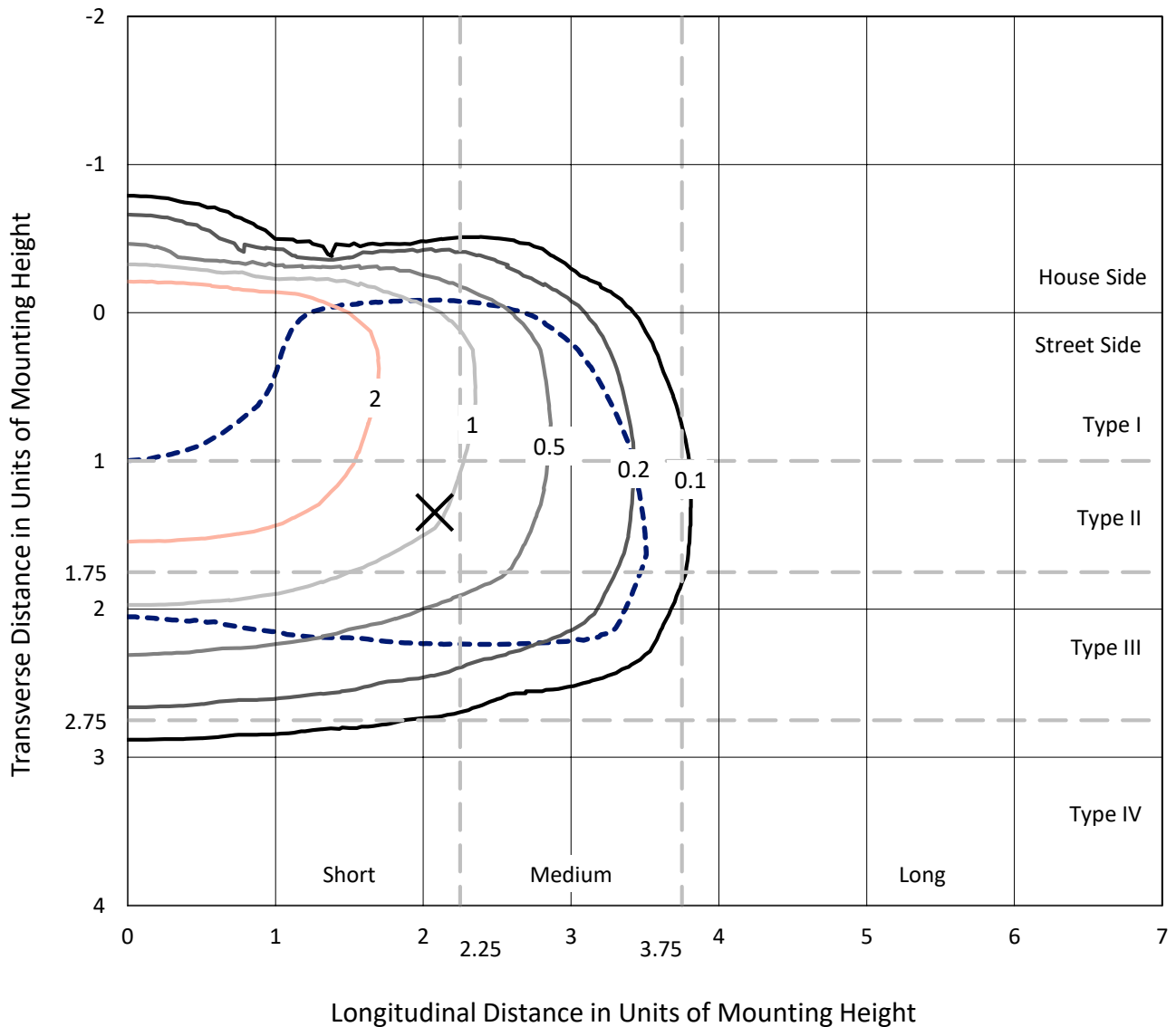
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

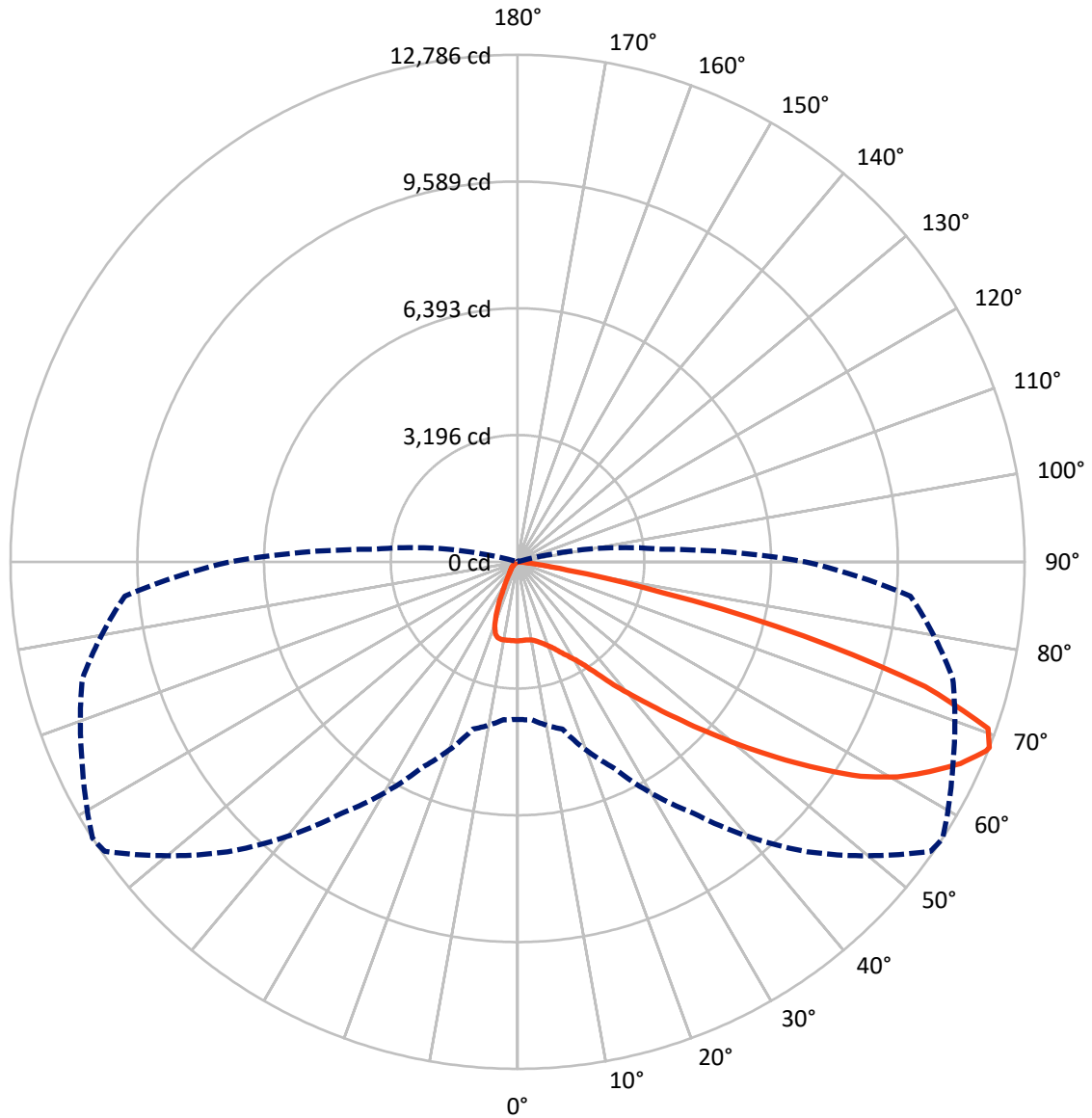
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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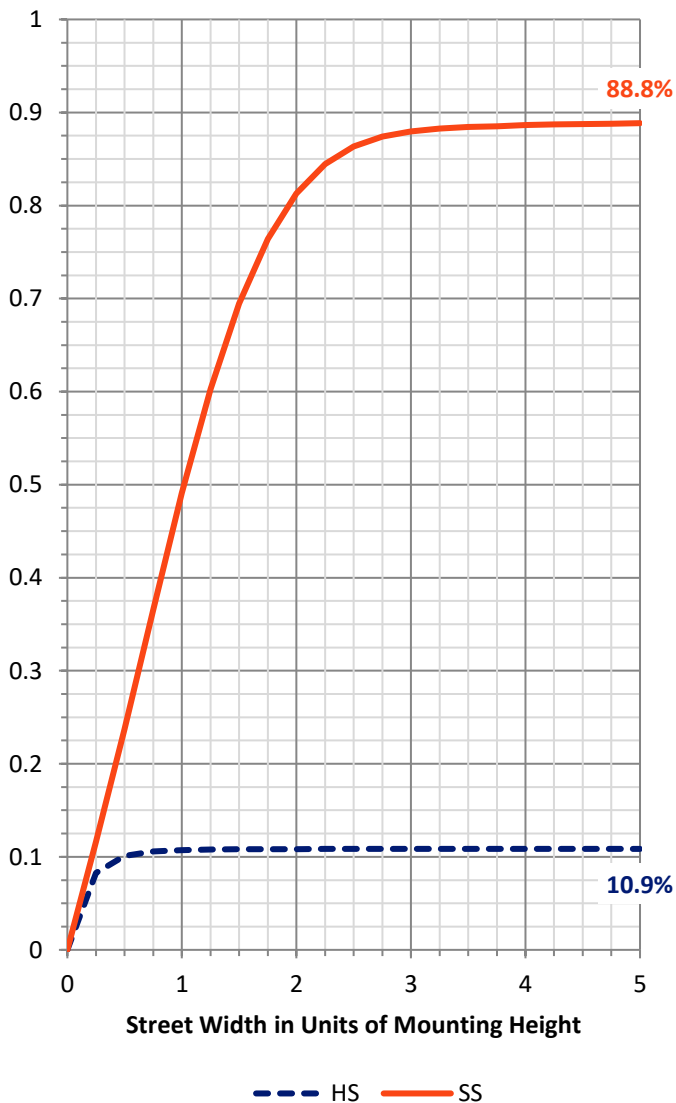
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1838.6	0.0	1838.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	14928.4	0.0	14928.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	16767.0	0.0	16767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	1.1
10°-20°	516.7	3.1
20°-30°	891.3	5.3
30°-40°	1538.4	9.2
40°-50°	2631.4	15.7
50°-60°	4210.1	25.1
60°-70°	4864.3	29.0
70°-80°	1858.7	11.1
80°-90°	69.7	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°	16767.0	100.0
0°-180°	16767.0	100.0

Coefficient of Utilization



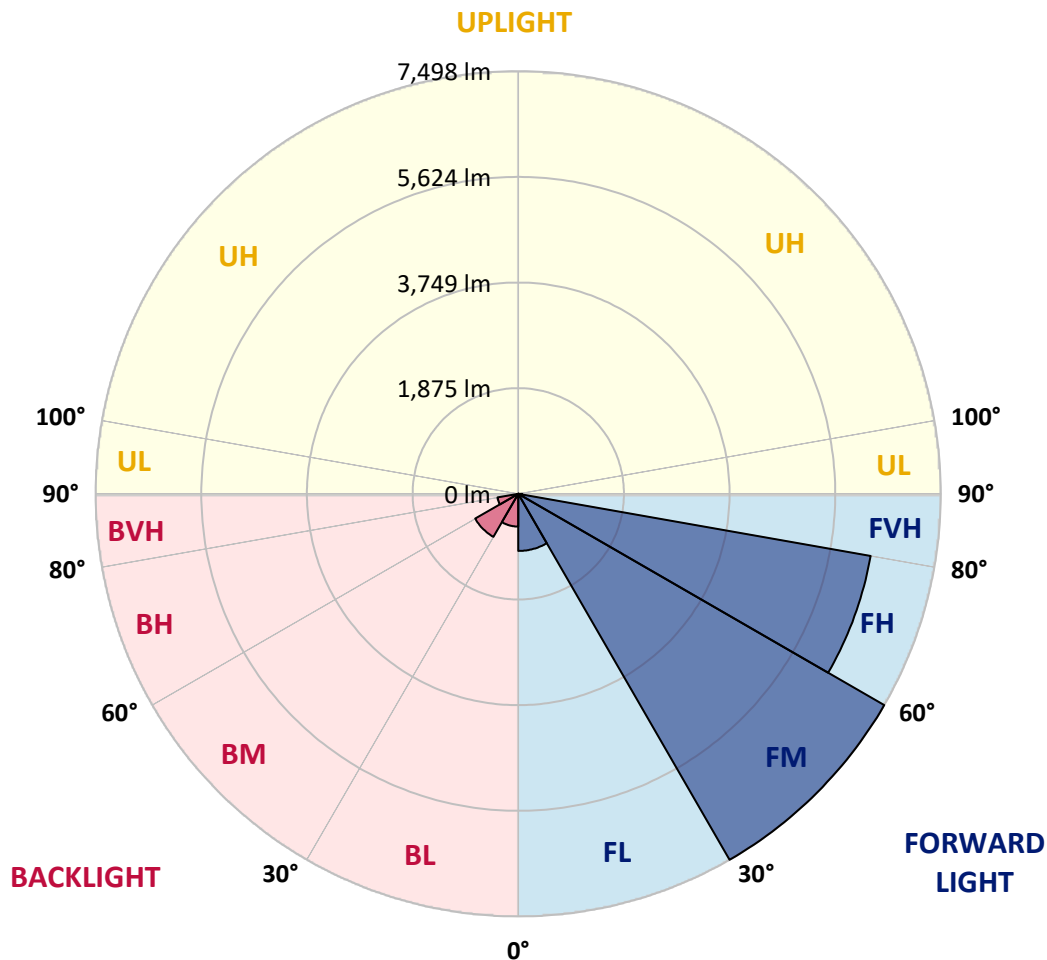
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.4	6.0			
FM (30°-60°)	7498.1	44.7			
FH (60°-80°)	6348.5	37.9			G3/7500
FVH (80°-90°)	68.4	0.4			G1/100
BL (0°-30°)	581.1	3.5	B2/1000		
BM (30°-60°)	881.8	5.3	B1/1000		
BH (60°-80°)	374.4	2.2	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4
2.5°	1945.6	1954.3	1960.6	1964.6	1969.4	1979.7	1982.8	1987.6	1990.0	1990.0	1995.5
5°	1868.7	1878.2	1891.7	1902.8	1925.0	1953.5	1974.1	1982.1	1996.3	2009.0	2016.1
7.5°	1797.3	1808.4	1824.3	1850.4	1888.5	1934.5	1977.3	1988.4	2016.1	2043.1	2056.6
10°	1751.3	1760.1	1780.7	1817.9	1867.9	1932.1	1992.4	2005.8	2053.4	2098.6	2124.0
12.5°	1735.5	1743.4	1764.8	1806.8	1868.7	1944.0	2027.2	2047.1	2116.8	2182.6	2218.3
15°	1758.5	1760.1	1783.1	1822.7	1883.7	1973.3	2085.1	2108.9	2196.9	2282.5	2326.9
17.5°	1847.3	1840.1	1852.0	1869.5	1917.8	2012.2	2146.2	2181.8	2299.2	2399.9	2441.9
20°	2069.3	2069.3	2042.3	1994.7	1995.5	2072.4	2228.6	2269.1	2412.6	2529.1	2567.2
22.5°	2449.0	2441.9	2388.0	2271.4	2164.4	2176.3	2329.3	2381.6	2548.9	2673.4	2686.1
25°	2905.7	2897.0	2813.7	2649.6	2464.1	2344.4	2465.7	2525.9	2711.5	2821.7	2795.5
27.5°	3389.3	3382.2	3299.7	3096.0	2832.0	2612.3	2628.2	2685.3	2877.2	2985.8	2902.5
30°	3857.9	3860.3	3778.6	3569.3	3270.4	2954.1	2834.3	2867.6	3038.1	3148.3	3029.4
32.5°	4303.4	4306.6	4236.0	4002.2	3723.1	3351.3	3119.8	3111.0	3225.2	3333.8	3197.5
35°	4700.6	4708.6	4660.2	4478.7	4182.9	3793.7	3490.0	3469.4	3490.8	3613.7	3455.1
37.5°	5083.6	5088.3	5051.9	4898.8	4651.5	4279.7	3957.8	3928.4	3882.4	3976.8	3795.2
40°	5503.0	5491.1	5449.1	5310.3	5097.8	4816.4	4460.4	4409.7	4329.6	4413.6	4242.4
42.5°	5893.0	5879.6	5886.7	5729.7	5550.5	5368.2	5046.3	4959.1	4912.3	5009.0	4791.0
45°	6380.6	6373.5	6397.3	6260.9	6115.8	5983.4	5717.8	5622.7	5602.1	5715.5	5454.6
47.5°	6861.9	6879.3	6953.0	6895.2	6836.5	6720.0	6429.0	6386.2	6398.9	6536.0	6154.7
50°	7263.0	7283.7	7485.8	7552.4	7637.3	7569.1	7277.3	7251.1	7301.1	7424.8	6907.9
52.5°	7553.2	7595.2	7846.6	8153.4	8462.6	8508.6	8217.6	8193.8	8261.2	8280.2	7489.8
55°	7754.6	7791.9	8076.5	8637.8	9267.3	9465.5	9284.7	9192.8	9180.1	8992.2	8101.8
57.5°	7790.3	7786.3	8195.4	8951.0	9898.4	10409.8	10295.6	10205.2	9945.2	9650.2	8803.5
60°	7588.9	7611.9	8086.8	9059.6	10294.8	11124.1	11132.8	11015.5	10610.3	10290.0	9483.7
62.5°	6968.9	7062.5	7542.1	8775.0	10290.0	11411.9	11746.5	11656.9	11172.4	10814.1	10173.5
65°	5963.6	5996.9	6454.4	7799.8	9594.7	11291.4	12299.0	12265.7	11679.1	11323.1	10527.9
67.5°	4355.0	4282.8	4763.3	6142.0	8123.3	10588.9	12695.5	12737.5	12069.9	11427.7	10150.5
68°	3974.4	3995.8	4370.0	5732.1	7737.9	10340.8	12721.6	12785.8	12108.8	11359.6	9944.4
70°	2369.0	2410.2	2744.0	3946.7	5886.7	8936.7	12439.4	12586.0	11877.3	10656.3	8601.3
72.5°	604.9	654.1	969.6	1766.4	3362.4	6296.6	10500.9	10749.1	10312.2	8644.9	5806.6
75°	248.9	261.6	346.5	581.9	1252.7	2836.7	6921.3	7452.5	7148.9	5175.5	2624.2
77.5°	172.0	180.8	222.8	322.7	542.3	961.7	3393.3	3777.0	3402.8	1766.4	572.4
80°	123.7	130.8	159.4	214.9	311.6	343.3	1106.0	1278.8	1015.6	387.7	141.9
82.5°	73.7	79.3	118.9	153.0	189.5	164.1	275.1	312.4	294.1	192.7	63.4
85°	36.5	42.8	80.1	109.4	102.3	69.0	84.0	93.6	115.8	117.3	34.1
87.5°	2.4	4.8	46.8	65.8	28.5	15.9	24.6	30.1	41.2	57.9	14.3
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°	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4
2.5°	1997.9	1998.7	1993.2	1990.8	1992.4	1982.8	1978.9	1980.5	1980.5	1982.8	1978.9
5°	2017.7	2017.7	2008.2	1995.5	1988.4	1970.2	1958.3	1955.1	1952.7	1951.1	1948.0
7.5°	2060.5	2055.8	2039.1	2011.4	1987.6	1948.0	1917.8	1902.0	1894.1	1890.9	1888.5
10°	2129.5	2120.8	2093.1	2041.5	1986.8	1916.3	1850.4	1803.7	1764.8	1749.0	1739.5
12.5°	2222.3	2209.6	2162.8	2077.2	1981.3	1851.2	1708.5	1571.4	1443.7	1391.4	1365.2
15°	2329.3	2311.1	2237.3	2107.3	1948.8	1704.6	1394.6	1154.3	977.5	911.0	882.4
17.5°	2437.9	2414.1	2302.4	2126.3	1851.2	1400.9	978.3	738.9	620.8	589.1	578.0
20°	2547.3	2512.5	2358.6	2112.1	1630.8	1010.1	645.4	539.9	505.8	496.3	493.1
22.5°	2651.2	2597.3	2409.4	2056.6	1291.5	677.9	510.6	477.3	466.2	460.6	459.0
25°	2741.6	2666.3	2453.8	1885.3	914.1	512.2	459.8	448.7	434.5	424.2	425.0
27.5°	2826.4	2735.2	2480.7	1603.1	609.7	437.6	425.7	410.7	384.5	369.5	369.5
30°	2928.7	2827.2	2500.6	1233.6	448.7	386.9	377.4	354.4	318.7	298.9	298.9
32.5°	3082.5	2966.7	2487.9	865.8	371.8	340.1	317.9	286.2	247.4	228.3	227.5
35°	3318.0	3182.4	2397.5	567.7	328.2	295.7	260.0	221.2	187.1	171.2	170.5
37.5°	3635.1	3471.0	2194.5	405.9	294.1	254.5	211.7	168.9	143.5	133.2	132.4
40°	4046.6	3806.3	1904.4	329.0	262.4	214.9	163.3	130.8	113.4	105.4	106.2
42.5°	4540.5	4165.5	1556.3	283.8	231.5	176.8	127.6	103.1	92.0	86.4	84.8
45°	5089.1	4519.9	1191.6	252.9	200.6	142.7	99.9	81.7	72.9	69.8	69.8
47.5°	5692.5	4864.8	872.1	226.0	167.3	110.2	80.1	66.6	59.5	57.1	56.3
50°	6240.3	5104.2	628.7	197.4	137.2	87.2	65.0	55.5	50.7	47.6	47.6
52.5°	6697.0	5179.5	463.0	166.5	111.0	69.8	53.9	47.6	42.8	40.4	40.4
55°	7098.9	5148.6	344.1	137.2	89.6	57.1	46.0	40.4	36.5	34.1	34.1
57.5°	7484.2	5048.7	256.9	111.8	72.1	46.0	38.8	34.1	30.1	28.5	28.5
60°	7799.0	4882.2	191.1	90.4	57.9	37.3	32.5	27.7	24.6	22.2	22.2
62.5°	8054.3	4698.3	140.3	74.5	46.0	29.3	25.4	23.0	18.2	15.9	15.9
65°	8055.9	4393.0	105.4	61.8	35.7	23.0	19.0	18.2	11.9	9.5	8.7
67.5°	7473.1	3787.3	80.9	53.1	27.7	17.4	14.3	15.1	6.3	4.0	3.2
68°	7261.5	3633.5	76.1	52.3	26.2	16.6	13.5	15.1	5.5	3.2	2.4
70°	6122.2	2890.6	61.0	50.7	23.0	12.7	11.1	15.1	4.8	2.4	1.6
72.5°	3915.7	1677.6	45.2	40.4	17.4	9.5	7.1	13.5	4.8	1.6	0.8
75°	1666.5	520.1	30.9	28.5	10.3	7.1	4.8	8.7	3.2	0.8	0.0
77.5°	351.2	117.3	18.2	17.4	7.1	4.8	3.2	2.4	0.8	0.0	0.0
80°	90.4	34.1	9.5	8.7	4.0	2.4	1.6	0.0	0.0	0.0	0.0
82.5°	28.5	13.5	5.5	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	7.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	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)