

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: P382857

Luminaire Tested: **GLEON-SA2B-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10669.9 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

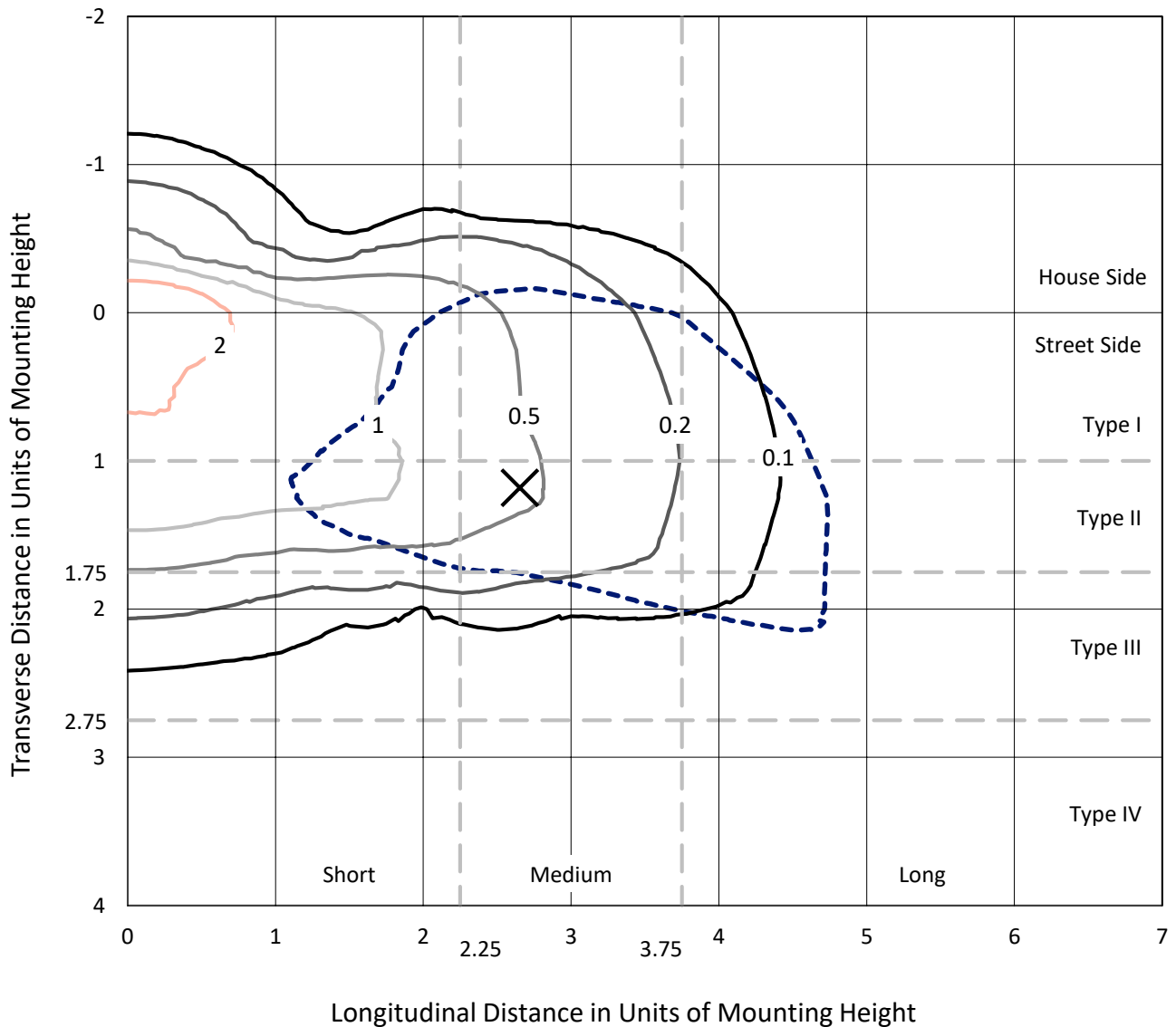
Input Watts (W): 85
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

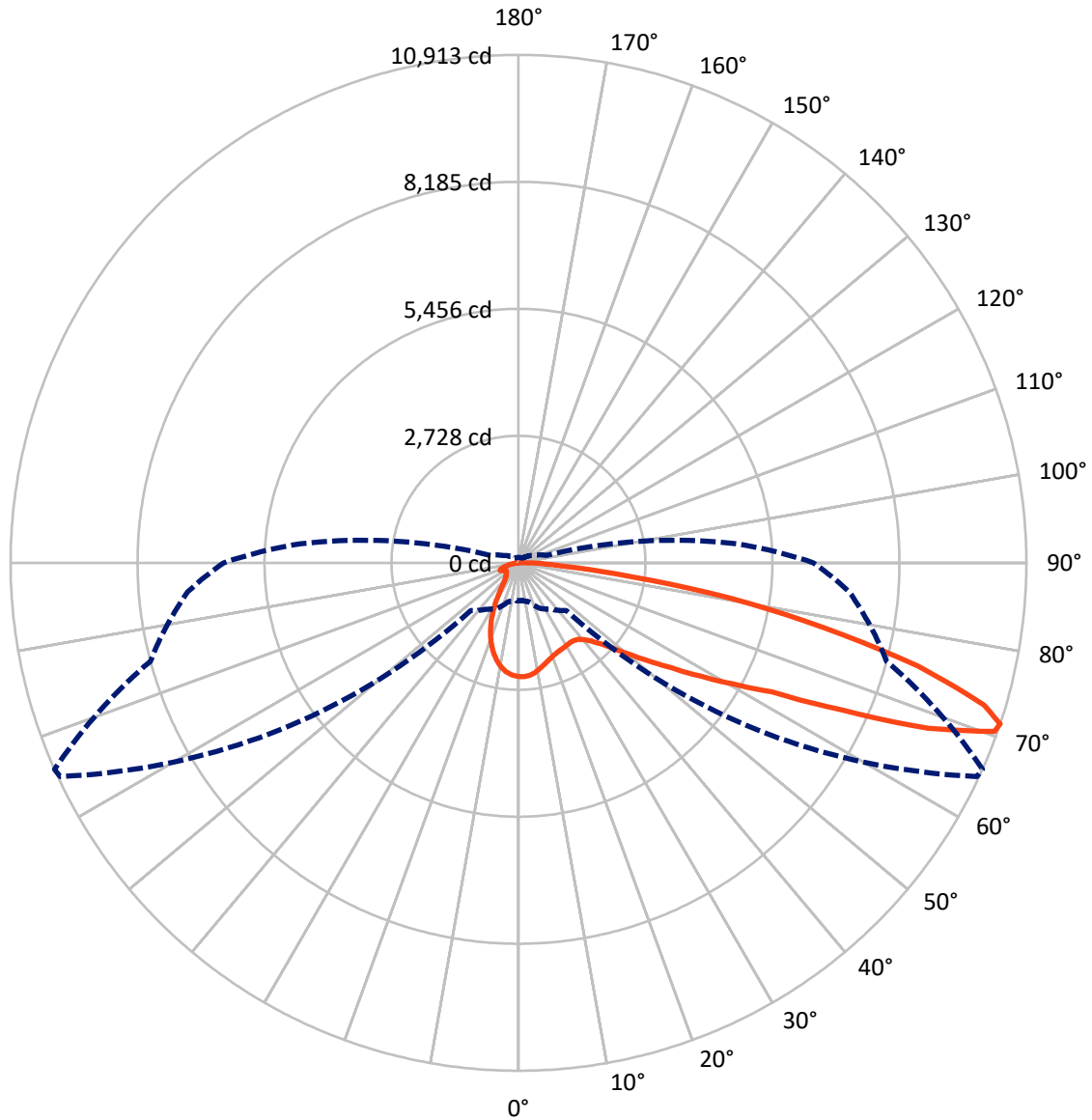
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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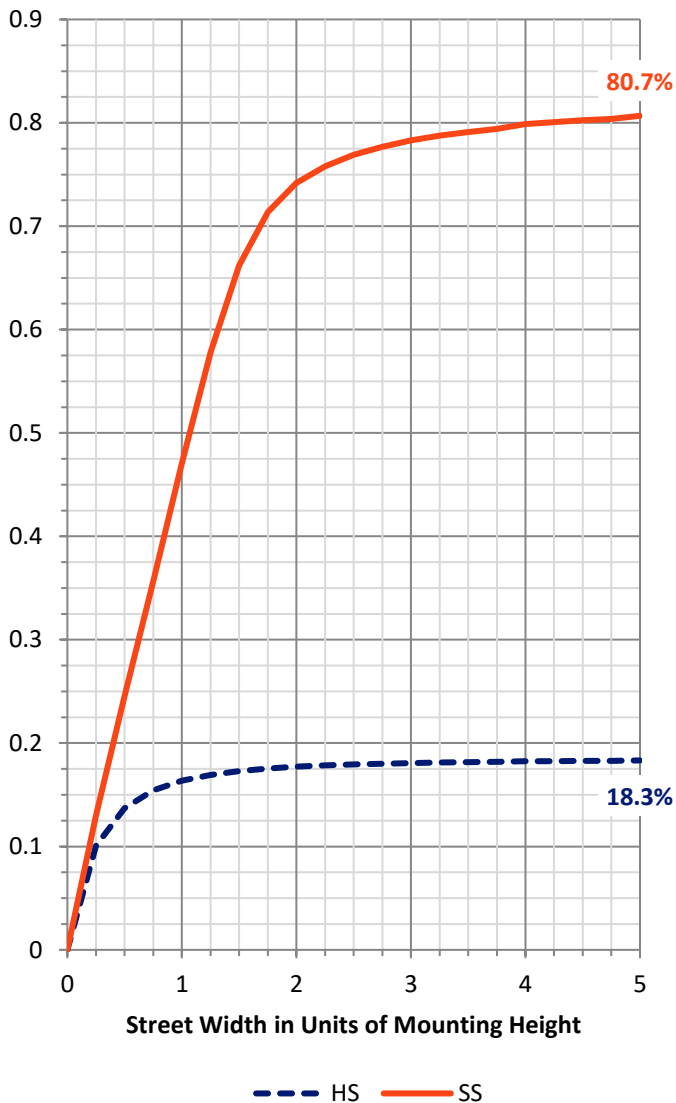
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1977.4	0.0	1977.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	8692.5	0.0	8692.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	10669.9	0.0	10669.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	2.0
10°-20°	516.0	4.8
20°-30°	693.2	6.5
30°-40°	911.8	8.5
40°-50°	1326.5	12.4
50°-60°	2072.1	19.4
60°-70°	2595.7	24.3
70°-80°	1979.9	18.6
80°-90°	359.5	3.4
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°	10669.9	100.0
0°-180°	10669.9	100.0

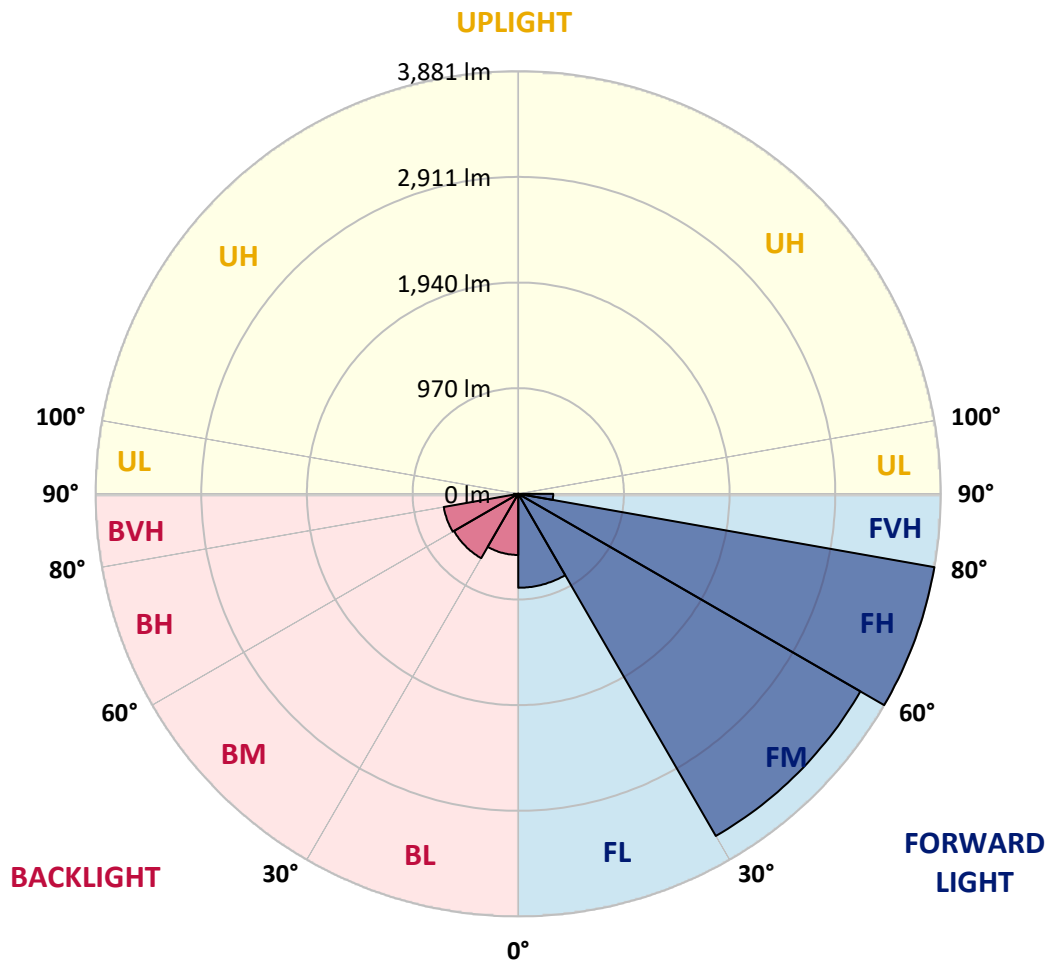


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.8	8.1			
FM (30°-60°)	3628.3	34.0			
FH (60°-80°)	3880.8	36.4			G2/5000
FVH (80°-90°)	320.6	3.0			G3/500
BL (0°-30°)	561.5	5.3	B2/1000		
BM (30°-60°)	682.2	6.4	B1/1000		
BH (60°-80°)	694.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	38.9	0.4			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3
2.5°	2398.9	2395.3	2406.4	2417.7	2422.2	2429.6	2440.6	2446.9	2446.5	2447.5	2443.9
5°	2239.8	2235.1	2257.1	2275.2	2309.8	2348.9	2396.4	2430.3	2431.1	2450.2	2455.4
7.5°	2089.2	2085.8	2111.3	2140.3	2180.5	2240.2	2317.2	2390.2	2394.5	2446.5	2464.5
10°	1968.4	1967.6	1992.3	2024.0	2070.7	2137.4	2225.8	2332.7	2339.3	2428.8	2466.0
12.5°	1874.0	1875.5	1896.8	1933.0	1982.3	2051.9	2147.7	2268.2	2278.8	2400.8	2457.5
15°	1804.4	1810.3	1827.6	1864.0	1912.7	1983.5	2081.8	2208.5	2224.7	2369.5	2452.8
17.5°	1764.6	1771.2	1783.4	1813.6	1859.3	1927.5	2020.6	2159.5	2174.2	2345.5	2453.1
20°	1752.8	1758.3	1765.4	1783.7	1822.4	1884.3	1972.4	2115.3	2131.1	2326.4	2456.8
22.5°	1776.0	1780.1	1780.8	1779.3	1802.9	1853.4	1937.3	2082.8	2099.8	2313.9	2459.4
25°	1825.7	1831.2	1827.2	1813.6	1805.9	1836.8	1919.4	2061.5	2078.5	2304.6	2454.3
27.5°	1900.5	1901.3	1897.9	1880.2	1843.8	1838.7	1913.8	2049.0	2065.2	2293.9	2443.5
30°	2002.2	2007.0	2001.1	1977.1	1917.5	1868.1	1920.4	2036.8	2051.5	2280.3	2426.2
32.5°	2121.2	2133.0	2132.6	2107.5	2022.1	1934.1	1947.7	2029.5	2040.9	2266.0	2405.3
35°	2244.6	2260.8	2291.0	2280.3	2174.6	2038.3	2000.0	2041.3	2049.0	2264.1	2390.5
37.5°	2372.8	2389.0	2451.3	2480.0	2356.3	2187.6	2082.5	2082.8	2086.6	2286.6	2389.4
40°	2506.9	2524.2	2617.8	2692.5	2591.7	2376.5	2215.5	2169.9	2165.8	2341.9	2411.1
42.5°	2694.8	2710.2	2822.6	2918.1	2852.9	2618.5	2399.3	2303.9	2295.4	2450.2	2480.7
45°	2932.4	2945.6	3065.0	3167.1	3133.5	2894.8	2630.3	2488.4	2487.0	2630.7	2621.8
47.5°	3215.0	3225.3	3332.4	3431.2	3443.4	3212.7	2920.6	2773.2	2749.3	2878.2	2840.3
50°	3509.3	3520.7	3593.6	3699.7	3790.0	3638.3	3294.1	3122.1	3090.0	3205.0	3149.7
52.5°	3704.2	3719.3	3782.6	3917.1	4179.8	4104.6	3735.9	3545.0	3496.4	3601.0	3558.7
55°	3617.2	3651.1	3748.0	3963.5	4491.5	4817.1	4280.7	4038.4	3983.4	4070.4	4045.3
57.5°	3221.9	3268.3	3400.6	3733.3	4535.2	5444.8	5104.4	4619.3	4580.6	4555.5	4566.9
60°	2499.5	2544.1	2708.0	3141.6	4229.9	5903.1	6344.0	5335.4	5279.5	5042.6	5052.9
62.5°	1769.0	1746.6	1858.9	2176.1	3437.1	5956.9	7754.7	6293.3	6109.0	5556.8	5511.5
65°	1349.1	1343.9	1394.3	1495.3	2081.8	5313.3	8594.9	7903.1	7615.4	6161.7	6054.9
67.5°	1108.4	1099.3	1149.0	1296.0	1340.6	3427.9	8613.4	9770.8	9488.3	6914.7	6683.4
70°	911.4	901.1	947.5	1137.2	1238.9	1738.5	7249.2	10864.6	10849.5	7868.1	7157.8
71°	817.1	809.7	865.3	1076.0	1217.2	1448.9	6259.0	10867.5	10912.9	8190.8	7129.9
72.5°	665.3	667.9	726.8	957.8	1201.0	1279.4	4600.1	10361.0	10456.8	8498.4	6875.3
75°	442.1	444.3	521.7	736.8	1164.5	1251.8	2528.3	8694.0	8870.1	8314.2	6273.7
77.5°	296.9	296.2	348.9	505.5	1014.5	1251.8	1482.4	6502.5	6695.9	6615.6	4836.6
80°	204.5	203.0	240.2	348.9	768.1	1266.9	1146.1	4557.0	4615.5	3572.7	1965.8
82.5°	125.3	126.3	157.0	246.5	522.8	1140.2	1082.0	2484.8	2421.1	1002.1	491.1
85°	71.8	71.4	100.2	166.8	335.6	962.2	1055.1	1069.4	981.0	301.7	177.6
87.5°	25.8	27.7	53.8	92.5	192.3	670.1	895.2	556.2	501.4	136.3	80.3
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°	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3	2444.3
2.5°	2441.3	2443.5	2440.9	2426.2	2413.7	2393.4	2382.1	2366.2	2361.4	2359.1	2365.1
5°	2450.5	2451.3	2429.6	2390.8	2347.4	2296.2	2259.4	2214.0	2192.7	2183.5	2189.3
7.5°	2459.0	2455.7	2408.1	2334.1	2253.8	2164.6	2085.5	2012.9	1970.5	1953.2	1954.7
10°	2460.1	2446.2	2369.9	2255.3	2130.8	2000.0	1878.5	1766.4	1695.7	1649.7	1663.7
12.5°	2448.7	2425.1	2313.5	2153.3	1980.5	1802.2	1637.8	1469.9	1368.9	1322.1	1323.6
15°	2439.8	2397.2	2244.3	2033.2	1801.1	1564.9	1340.6	1143.1	1035.5	987.6	965.2
17.5°	2432.5	2366.9	2163.9	1897.9	1589.2	1289.7	1020.0	844.0	785.0	771.0	765.2
20°	2422.2	2334.8	2074.4	1741.3	1347.9	981.8	744.9	658.0	658.3	674.5	676.8
22.5°	2407.8	2298.4	1979.0	1565.7	1089.0	715.1	583.9	558.8	584.3	615.2	620.8
25°	2386.4	2255.3	1872.9	1371.5	830.4	549.6	498.8	497.7	528.7	561.1	565.8
27.5°	2356.3	2198.9	1755.0	1163.0	611.9	467.1	446.9	454.6	477.4	501.0	502.8
30°	2315.7	2133.3	1625.0	943.1	479.7	415.9	413.7	420.7	434.7	451.2	452.7
32.5°	2271.1	2066.6	1486.1	730.1	410.7	388.3	390.5	393.8	400.5	407.1	408.6
35°	2230.6	1998.5	1343.9	554.8	377.9	370.2	368.8	368.1	368.8	366.6	366.9
37.5°	2204.4	1942.2	1195.8	441.7	359.2	354.4	350.0	344.5	338.2	334.5	335.3
40°	2194.9	1900.2	1045.8	381.7	343.7	340.4	331.9	320.2	312.7	310.6	310.6
42.5°	2220.6	1878.5	901.1	351.5	330.8	325.3	311.3	297.6	292.1	291.8	291.4
45°	2299.5	1887.3	763.3	334.9	319.1	308.3	289.9	278.5	274.8	275.6	275.2
47.5°	2440.9	1942.9	645.4	323.8	307.2	293.3	272.6	263.4	259.0	259.0	259.3
50°	2681.6	2073.0	551.5	314.6	297.3	279.3	260.1	248.6	242.8	242.4	242.4
52.5°	3031.9	2305.8	492.9	306.9	286.3	266.7	247.6	233.2	226.2	224.7	223.9
55°	3470.9	2639.5	476.7	301.7	271.5	253.1	232.4	218.1	210.3	207.0	206.7
57.5°	3962.1	3045.5	508.7	295.5	256.4	236.9	215.8	202.2	194.1	190.1	189.8
60°	4459.0	3488.6	639.5	286.6	243.9	219.2	198.9	186.4	178.3	173.9	173.2
62.5°	4956.7	3955.8	906.6	285.9	235.0	202.2	181.7	170.9	163.2	158.4	157.3
65°	5518.1	4467.1	1210.2	305.4	232.0	186.8	164.0	155.5	148.9	144.4	144.0
67.5°	6162.8	5044.4	1181.1	345.5	242.0	172.8	147.4	140.8	135.9	132.3	131.9
70°	6465.3	4954.2	734.2	373.9	256.0	159.1	131.5	126.7	123.1	120.4	119.3
71°	6338.5	4704.0	615.6	370.6	254.6	153.2	125.3	121.6	117.8	115.7	114.6
72.5°	5993.0	4290.0	513.6	344.9	238.0	142.5	117.2	113.5	110.1	107.6	106.8
75°	5377.8	3831.3	411.1	275.6	189.8	120.4	102.7	98.7	96.1	94.6	93.2
77.5°	3953.2	2734.2	317.9	217.7	139.6	98.4	87.7	84.8	82.2	79.9	78.8
80°	1514.4	1059.2	214.1	162.5	102.4	77.7	70.7	69.2	66.7	65.2	65.2
82.5°	407.8	316.4	114.2	98.4	68.6	56.7	54.1	53.4	51.2	48.3	48.6
85°	165.1	139.6	64.1	54.1	42.0	33.5	36.5	36.8	34.3	30.6	30.9
87.5°	72.6	59.3	35.8	23.9	18.4	12.9	16.6	16.6	15.1	12.5	11.5
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)