

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: P528242

Luminaire Tested: **GALN-SA3B-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528242
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-SA3B-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 14926 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

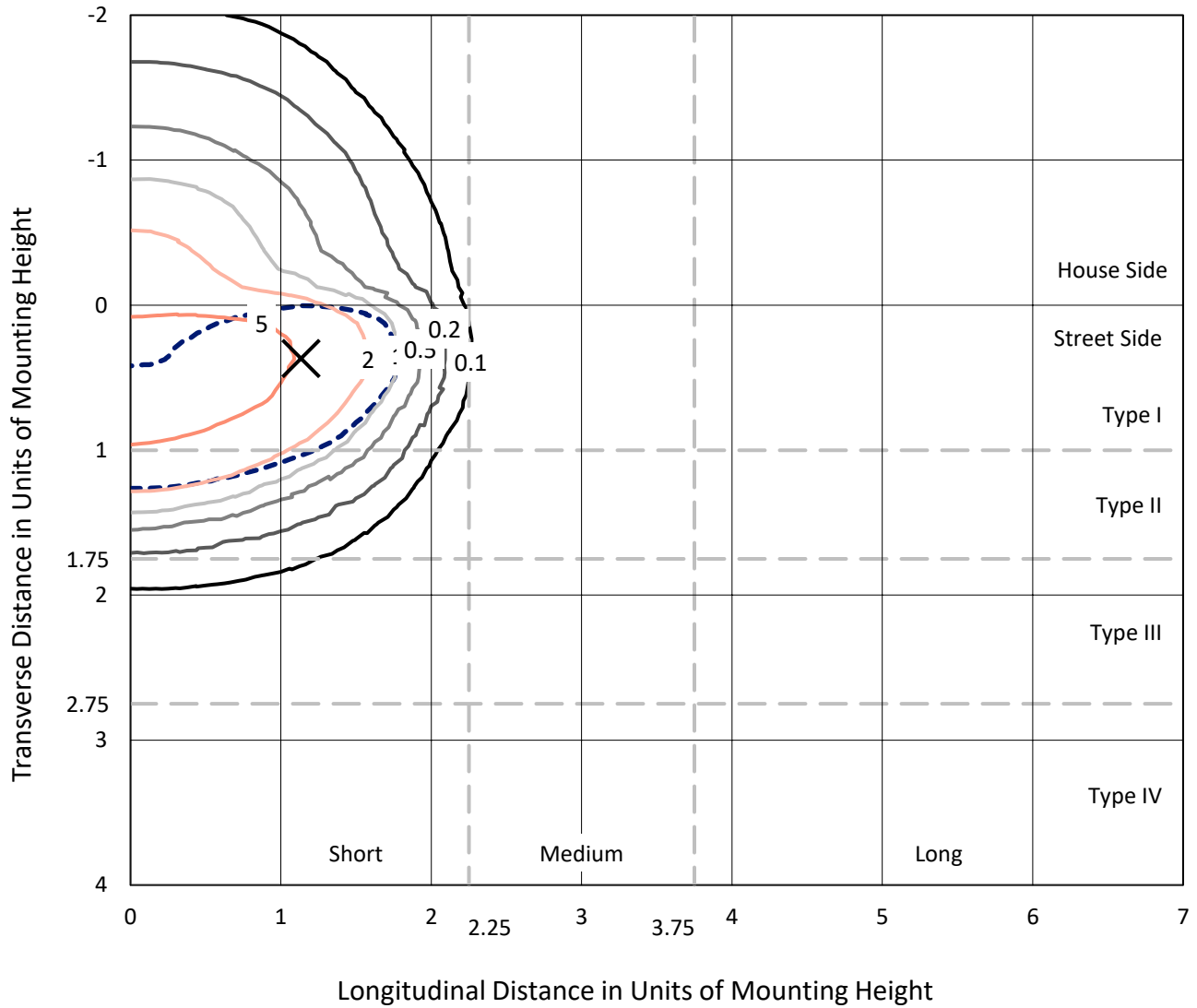
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528242
 CATALOG NUMBER: GALN-SA3B-740-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

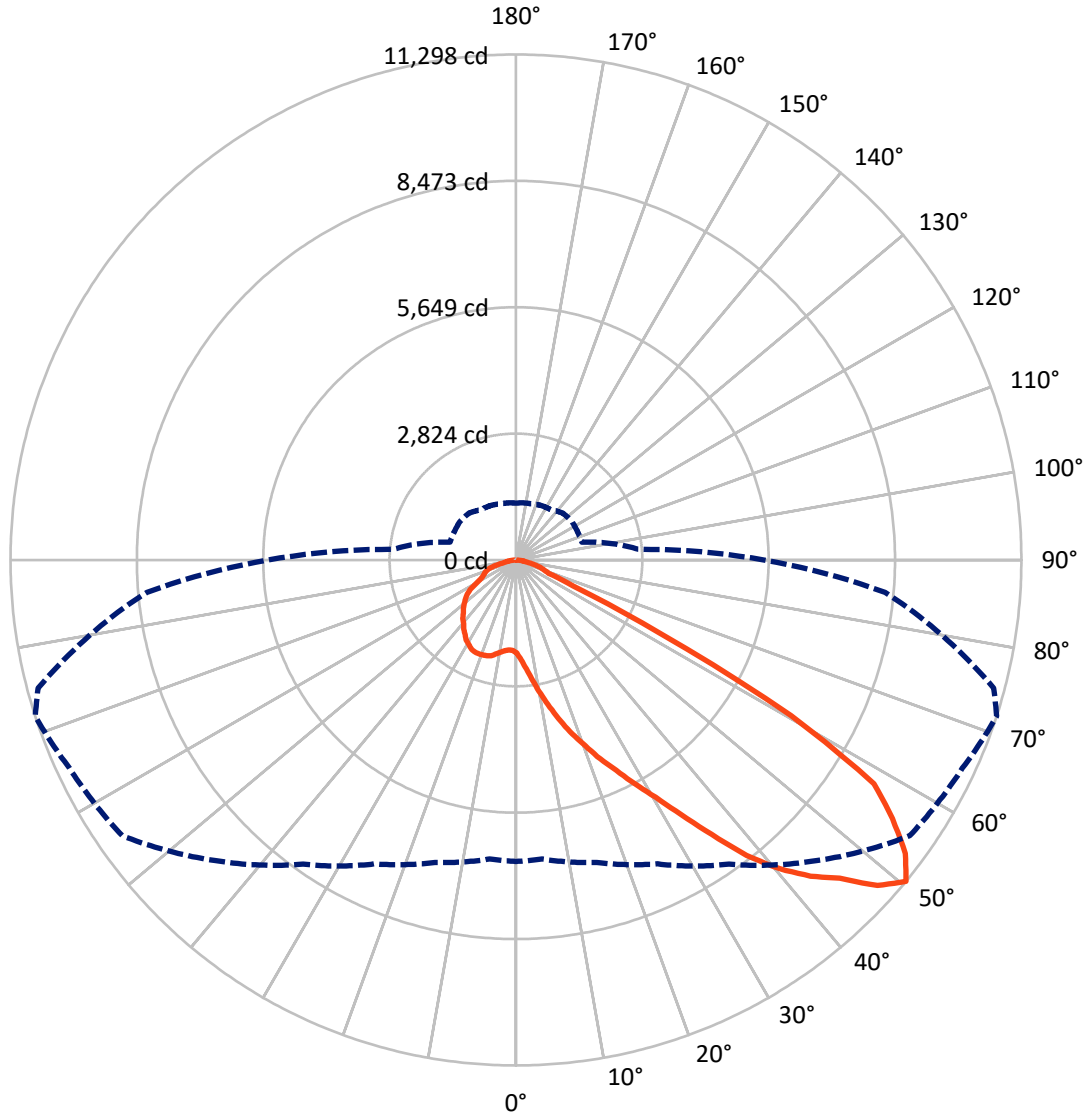
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P528242
CATALOG NUMBER: GALN-SA3B-740-U-T2R-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA3B-740-U-T2R-GRSWH

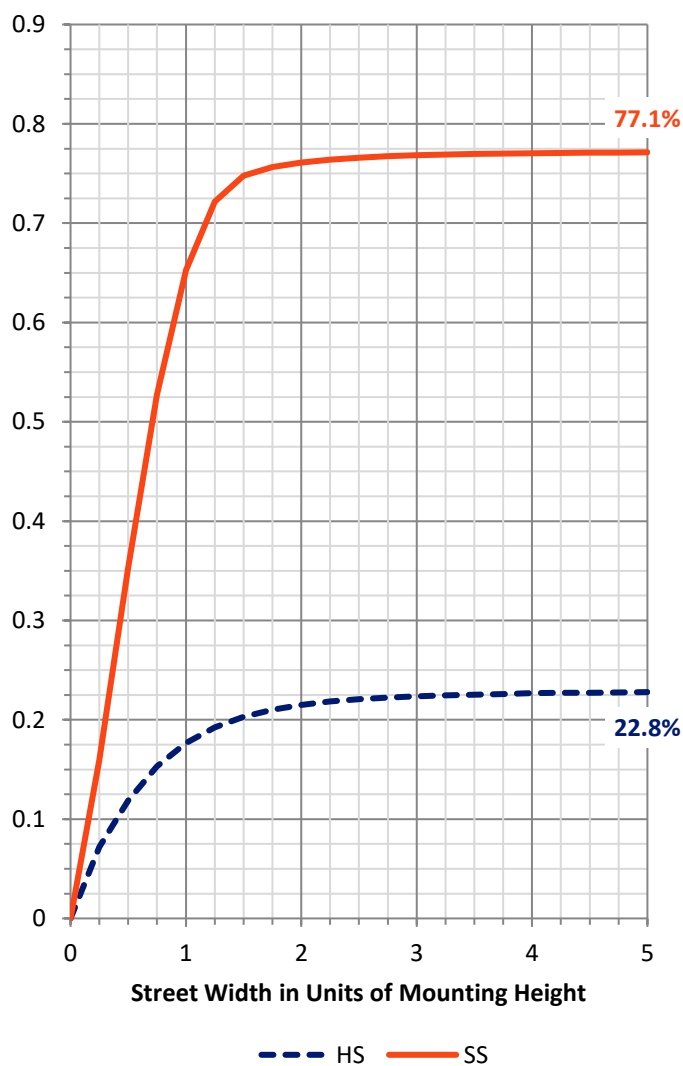
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3419.6	0.0	3419.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11506.4	0.0	11506.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	14926.0	0.0	14926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	1.6
10°-20°	913.7	6.1
20°-30°	1771.5	11.9
30°-40°	2934.8	19.7
40°-50°	4106.5	27.5
50°-60°	3464.3	23.2
60°-70°	1055.9	7.1
70°-80°	370.5	2.5
80°-90°	64.4	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°	14926.0	100.0
0°-180°	14926.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528242

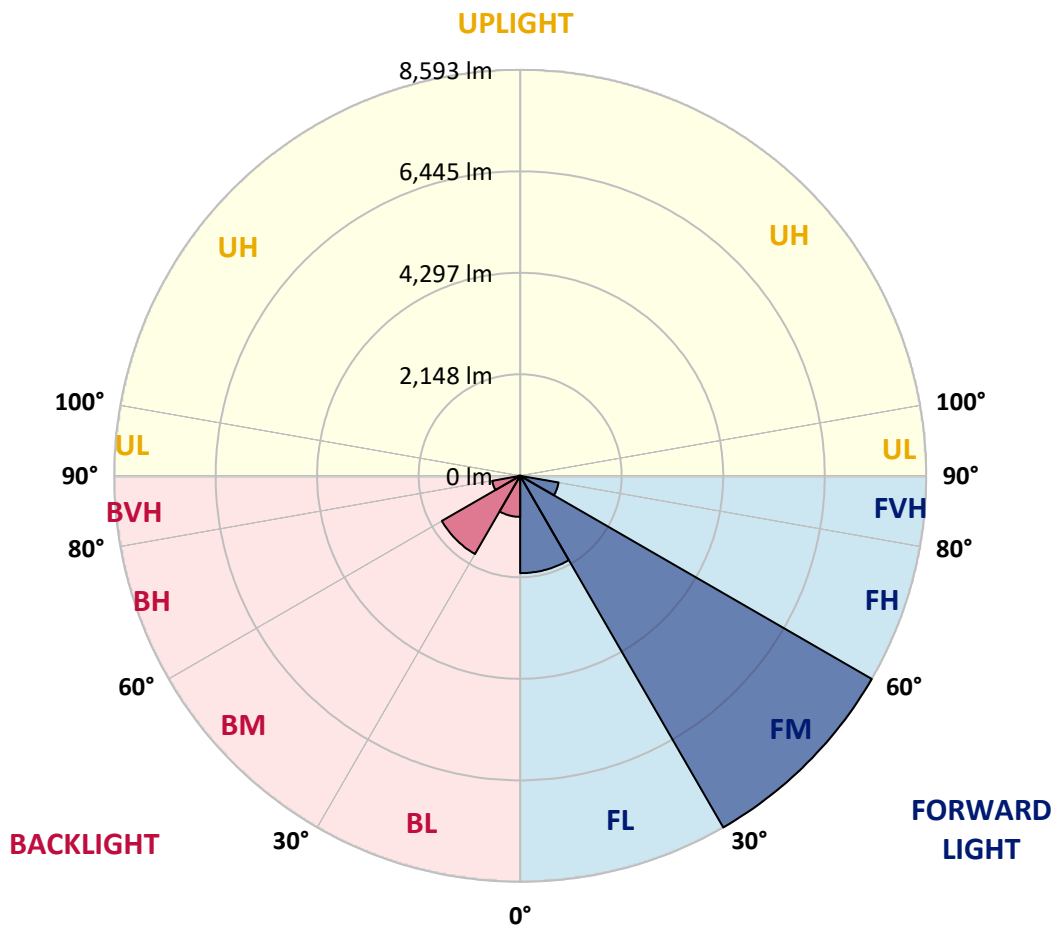
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.3	13.8			
FM (30°-60°)	8593.3	57.6			
FH (60°-80°)	823.9	5.5			G1/1800
FVH (80°-90°)	28.8	0.2			G1/100
BL (0°-30°)	869.3	5.8	B2/1000		
BM (30°-60°)	1912.3	12.8	B2/2500		
BH (60°-80°)	602.5	4.0	B2/1000		G2/1000
BVH (80°-90°)	35.6	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





REPORT NUMBER: P528242

CATALOG NUMBER: GALN-SA3B-740-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8
2.5°	2672.5	2655.9	2606.1	2589.4	2530.3	2423.2	2386.3	2277.3	2231.1	2188.6	2138.8
5°	3379.9	3302.4	3296.8	3202.6	3065.9	2986.5	2750.1	2591.3	2445.4	2371.5	2234.8
7.5°	3830.6	3832.4	3832.4	3754.9	3645.9	3444.6	3232.2	2945.9	2726.1	2617.1	2384.4
10°	4259.1	4222.1	4201.8	4194.4	4120.6	3924.8	3697.6	3343.0	3041.9	2914.5	2497.1
12.5°	4562.0	4530.6	4576.8	4552.7	4499.2	4371.7	4157.5	3753.0	3376.2	3204.5	2678.1
15°	4706.0	4728.2	4765.1	4831.6	4807.6	4759.6	4523.2	4174.1	3736.4	3542.5	2838.8
17.5°	4927.7	4866.7	4911.1	4994.2	5060.7	5038.5	4903.7	4478.9	4092.9	3854.6	3054.9
20°	5082.8	5047.7	5069.9	5165.9	5215.8	5341.4	5271.2	4877.8	4434.5	4183.4	3309.7
22.5°	5526.1	5474.4	5402.3	5417.1	5435.6	5524.2	5540.9	5315.5	4831.6	4565.7	3551.7
25°	6072.8	6024.8	5939.8	5853.0	5799.4	5782.8	5840.1	5659.1	5212.1	4936.9	3812.1
27.5°	6674.9	6593.6	6540.1	6360.9	6216.9	6194.7	6167.0	6069.1	5662.8	5365.4	4105.8
30°	7260.4	7195.7	7123.7	6837.4	6687.8	6663.8	6527.1	6554.8	6152.2	5821.6	4438.2
32.5°	7703.7	7709.2	7544.8	7328.7	7188.4	7060.9	7011.0	7090.5	6780.2	6514.2	4809.5
35°	8062.0	8078.6	7921.6	7725.8	7574.4	7663.0	7640.9	7677.8	7530.0	7205.0	5241.7
37.5°	8411.0	8327.9	8159.9	8065.7	7986.2	8132.2	8320.5	8351.9	8379.6	7997.3	5744.0
40°	8468.3	8475.7	8377.8	8444.3	8344.6	8564.3	9002.1	8961.4	9074.1	8739.8	6288.9
42.5°	8387.0	8403.7	8442.4	8536.6	8776.7	9040.9	9691.0	9524.8	9661.4	9364.1	6819.0
45°	8254.1	8185.7	8233.7	8592.0	9007.6	9594.9	10320.8	10191.5	10147.2	9897.8	7450.6
47.5°	7618.7	7688.9	7838.5	8279.9	8904.2	9691.0	10767.8	10738.2	10871.2	10695.7	8025.0
50°	6737.7	6710.0	6998.1	7495.0	8300.2	9502.6	10743.7	11011.6	11297.8	11054.0	8281.8
52.5°	5045.9	5193.6	5441.1	6058.0	7206.8	8475.7	10219.2	10666.2	10898.9	10847.2	8074.9
55°	3189.7	3234.0	3383.6	4116.9	5151.2	6802.3	8760.1	9796.3	10211.8	10405.8	7884.7
57.5°	1549.6	1466.5	1649.3	2238.5	2975.4	4574.9	6756.2	8532.9	9436.1	9787.0	7470.9
60°	809.0	840.4	912.4	1122.9	1538.5	2375.2	4211.1	5686.8	7066.5	7605.8	5662.8
62.5°	670.4	681.5	729.5	834.8	1023.2	1366.7	2149.9	2772.3	3603.4	4089.2	3221.1
65°	568.9	574.4	626.1	696.3	816.4	962.3	1106.3	1158.0	1401.8	1438.8	1145.1
67.5°	474.7	480.2	535.6	602.1	679.7	718.5	755.4	751.7	779.4	768.3	766.5
70°	365.7	371.2	428.5	498.7	537.5	515.3	629.8	655.7	666.8	676.0	690.8
72.5°	264.1	275.2	319.5	369.4	349.1	400.8	519.0	557.8	572.6	578.1	596.6
75°	192.1	195.8	206.9	192.1	221.6	278.9	365.7	413.7	432.2	437.7	465.4
77.5°	85.0	86.8	88.7	110.8	142.2	173.6	217.9	256.7	282.6	290.0	297.4
80°	44.3	46.2	57.3	75.7	101.6	127.4	158.8	181.0	197.6	199.5	206.9
82.5°	27.7	29.6	40.6	53.6	72.0	94.2	116.4	134.8	147.8	149.6	151.5
85°	12.9	16.6	24.0	33.2	48.0	60.9	62.8	53.6	57.3	59.1	55.4
87.5°	3.7	5.5	7.4	5.5	7.4	7.4	9.2	11.1	11.1	11.1	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528242

CATALOG NUMBER: GALN-SA3B-740-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8	2077.8
2.5°	2111.1	2094.4	2029.8	2005.8	1943.0	1954.1	1920.8	1919.0	1911.6	1909.8	1907.9
5°	2162.8	2111.1	2033.5	1974.4	1939.3	1935.6	1911.6	1911.6	1919.0	1924.5	1911.6
7.5°	2247.7	2188.6	2057.5	2002.1	1970.7	1965.2	1948.5	1935.6	1952.2	1946.7	1931.9
10°	2345.6	2242.2	2103.7	2055.7	2003.9	1991.0	1991.0	1996.6	1968.9	1978.1	1963.3
12.5°	2454.6	2316.1	2162.8	2107.4	2046.4	2039.0	2035.3	1994.7	2009.5	2002.1	1965.2
15°	2593.1	2401.0	2238.5	2144.3	2092.6	2059.4	2011.3	2003.9	1994.7	1976.2	1959.6
17.5°	2742.7	2493.4	2273.6	2155.4	2077.8	2053.8	2016.9	1978.1	1950.4	1954.1	1941.2
20°	2870.2	2578.4	2286.5	2166.5	2066.7	2020.6	1963.3	1939.3	1909.8	1907.9	1906.1
22.5°	3021.6	2692.9	2305.0	2136.9	2033.5	1985.5	1946.7	1904.2	1883.9	1858.0	1871.0
25°	3202.6	2737.2	2308.7	2120.3	2009.5	1924.5	1904.2	1858.0	1850.7	1813.7	1821.1
27.5°	3333.8	2761.2	2279.1	2068.6	1954.1	1889.4	1852.5	1819.3	1806.3	1778.6	1771.2
30°	3509.2	2798.1	2216.3	2003.9	1898.7	1826.6	1804.5	1797.1	1760.1	1730.6	1726.9
32.5°	3708.7	2822.2	2175.7	1937.5	1841.4	1786.0	1797.1	1762.0	1715.8	1690.0	1682.6
35°	3867.5	2831.4	2074.1	1861.7	1802.6	1767.5	1754.6	1747.2	1680.7	1656.7	1638.3
37.5°	4109.5	2811.1	1989.2	1808.2	1760.1	1747.2	1736.1	1686.3	1610.5	1575.5	1549.6
40°	4392.1	2805.5	1880.2	1732.4	1719.5	1734.3	1701.0	1623.5	1518.2	1479.4	1460.9
42.5°	4663.6	2844.3	1811.9	1691.8	1675.2	1680.7	1634.6	1518.2	1466.5	1444.3	1414.8
45°	5117.9	2925.6	1699.2	1629.0	1621.6	1617.9	1562.5	1440.6	1411.1	1383.4	1377.8
47.5°	5527.9	2872.0	1627.2	1564.4	1571.8	1551.4	1433.2	1394.5	1361.2	1333.5	1324.3
50°	5552.0	2744.6	1525.6	1514.5	1516.4	1481.3	1368.6	1342.7	1300.3	1281.8	1268.9
52.5°	5426.4	2535.9	1431.4	1435.1	1440.6	1383.4	1289.2	1270.7	1235.6	1209.8	1202.4
55°	5073.6	2210.8	1339.0	1353.8	1368.6	1259.6	1230.1	1183.9	1156.2	1119.3	1121.1
57.5°	4469.6	1780.5	1209.8	1233.8	1265.2	1145.1	1122.9	1065.7	1025.1	995.5	991.8
60°	2995.8	1267.0	1015.8	1025.1	1095.2	1047.2	1045.4	988.1	932.7	906.9	892.1
62.5°	1767.5	967.8	877.3	868.1	866.2	893.9	940.1	919.8	847.8	797.9	812.7
65°	925.3	836.7	816.4	785.0	766.5	759.1	794.2	803.4	755.4	701.8	698.1
67.5°	777.6	777.6	760.9	749.9	724.0	692.6	670.4	640.9	633.5	618.7	600.3
70°	707.4	725.9	720.3	694.5	672.3	637.2	579.9	531.9	485.7	469.1	480.2
72.5°	616.9	635.4	635.4	622.4	592.9	539.3	483.9	428.5	389.7	360.2	356.5
75°	474.7	483.9	506.1	491.3	452.5	419.3	362.0	304.7	267.8	240.1	234.6
77.5°	302.9	317.7	317.7	315.8	288.1	256.7	219.8	179.2	151.5	131.1	125.6
80°	201.3	210.6	217.9	210.6	192.1	168.1	140.4	112.7	92.3	75.7	72.0
82.5°	147.8	158.8	164.4	157.0	138.5	120.1	99.7	79.4	59.1	46.2	42.5
85°	57.3	59.1	66.5	79.4	77.6	75.7	60.9	44.3	33.2	24.0	22.2
87.5°	14.8	12.9	14.8	14.8	12.9	11.1	11.1	11.1	11.1	5.5	7.4
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)