

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: P527722

Luminaire Tested: **GALN-SA2D-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527722
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-SA2D-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 12450 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

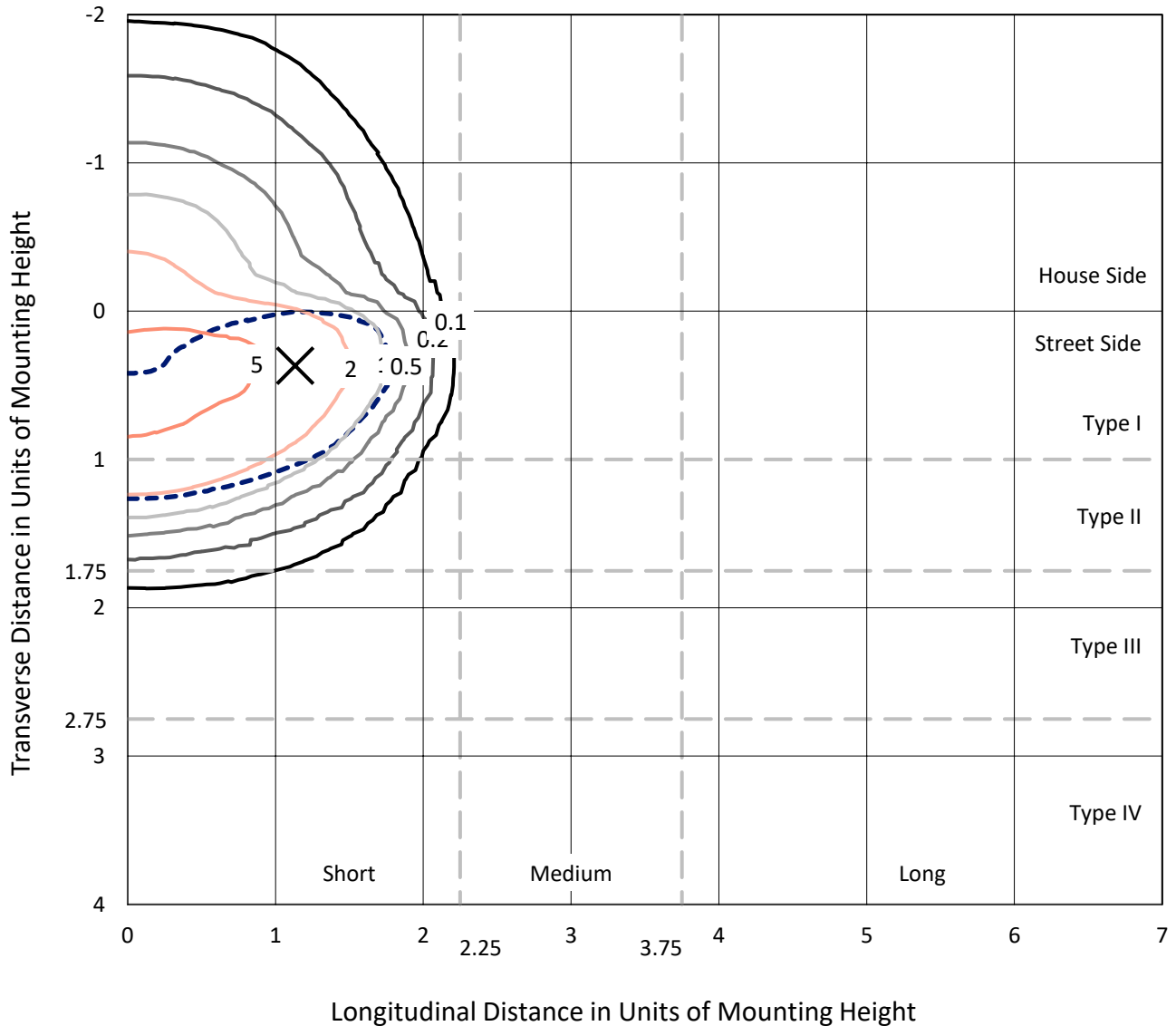
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

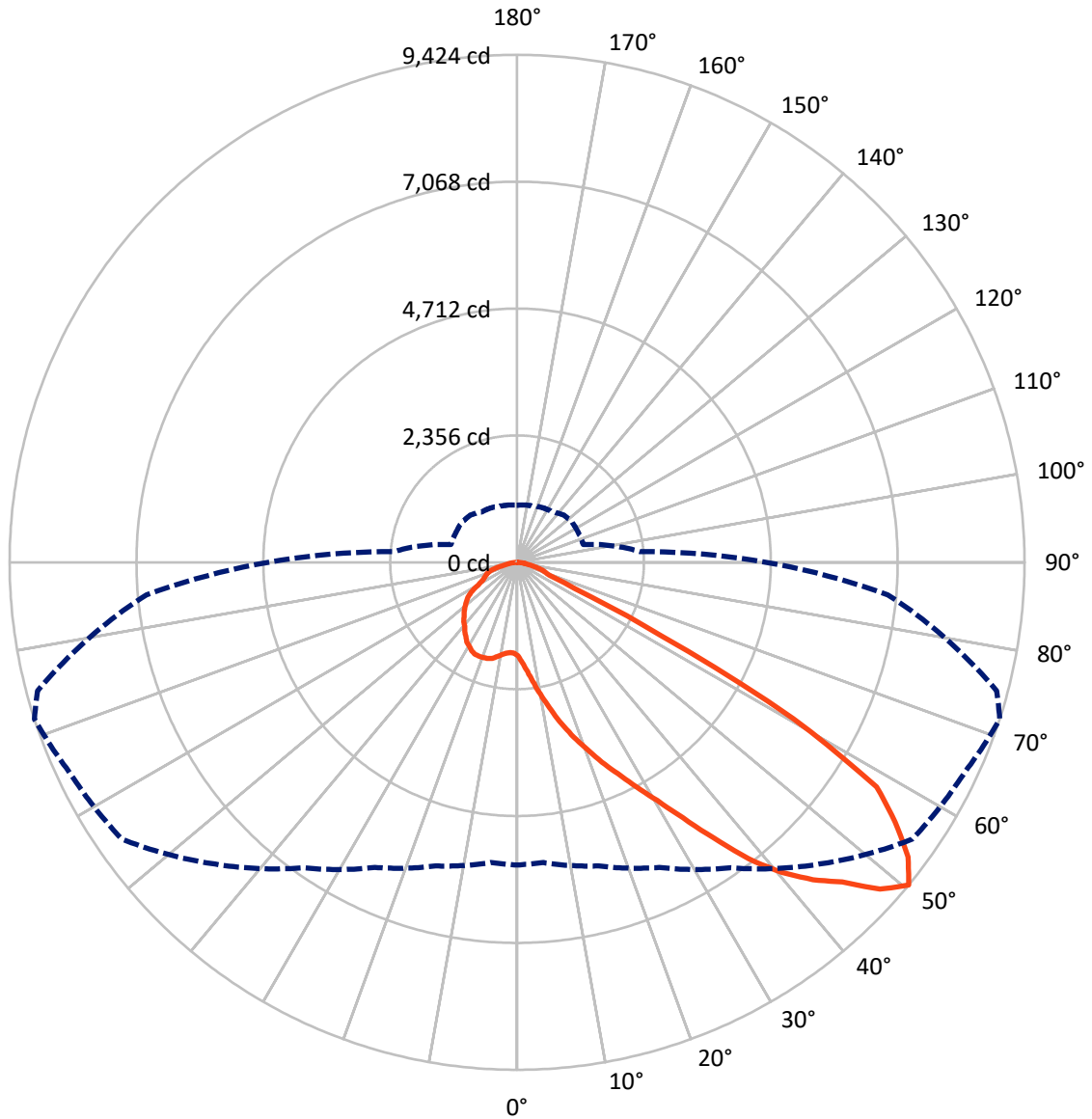
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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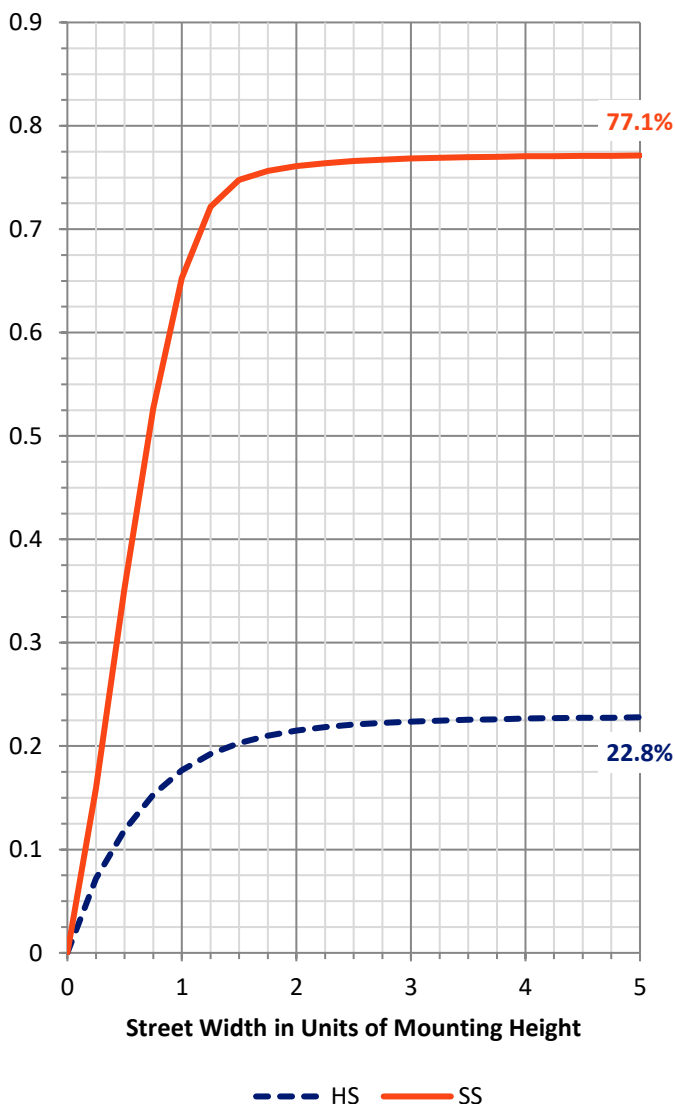
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2852.4	0.0	2852.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9597.6	0.0	9597.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	12450.0	0.0	12450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.6
10°-20°	762.1	6.1
20°-30°	1477.7	11.9
30°-40°	2448.0	19.7
40°-50°	3425.3	27.5
50°-60°	2889.6	23.2
60°-70°	880.8	7.1
70°-80°	309.0	2.5
80°-90°	53.7	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°	12450.0	100.0
0°-180°	12450.0	100.0

Coefficient of Utilization



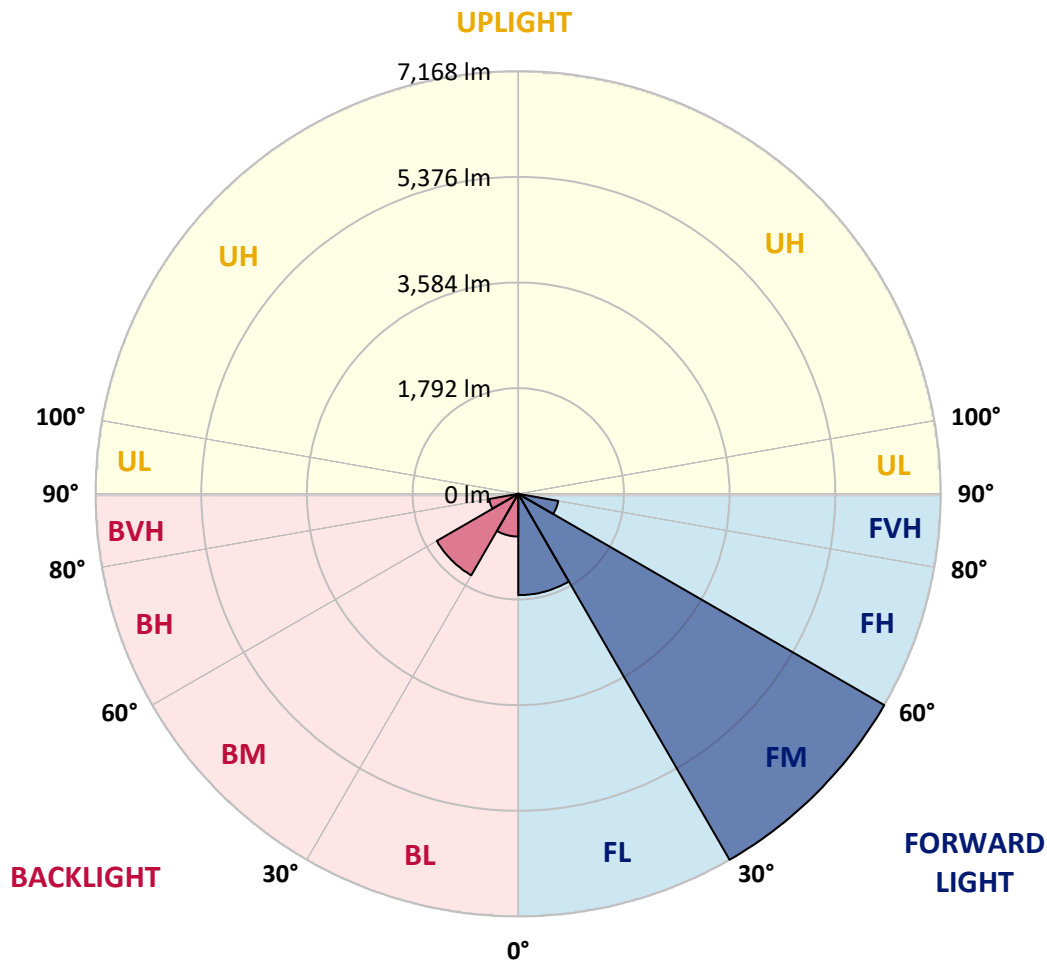
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.5	13.8			
FM (30°-60°)	7167.8	57.6			
FH (60°-80°)	687.2	5.5			G1/1800
FVH (80°-90°)	24.1	0.2			G1/100
BL (0°-30°)	725.1	5.8	B2/1000		
BM (30°-60°)	1595.1	12.8	B2/2500		
BH (60°-80°)	502.5	4.0	B2/1000		G2/1000
BVH (80°-90°)	29.7	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°	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1
2.5°	2229.2	2215.3	2173.8	2159.9	2110.6	2021.2	1990.4	1899.5	1861.0	1825.6	1784.0
5°	2819.3	2754.5	2749.9	2671.4	2557.4	2491.1	2293.9	2161.4	2039.7	1978.1	1864.1
7.5°	3195.2	3196.7	3196.7	3132.0	3041.1	2873.2	2696.0	2457.2	2273.9	2183.0	1988.9
10°	3552.6	3521.8	3504.8	3498.6	3437.0	3273.7	3084.2	2788.4	2537.3	2431.0	2082.9
12.5°	3805.2	3779.0	3817.5	3797.5	3752.8	3646.5	3467.8	3130.4	2816.2	2672.9	2233.8
15°	3925.4	3943.9	3974.7	4030.1	4010.1	3970.1	3772.9	3481.7	3116.6	2954.8	2367.9
17.5°	4110.3	4059.4	4096.4	4165.7	4221.2	4202.7	4090.2	3735.9	3413.9	3215.2	2548.1
20°	4239.7	4210.4	4228.9	4309.0	4350.6	4455.3	4396.8	4068.7	3698.9	3489.4	2760.7
22.5°	4609.4	4566.3	4506.2	4518.5	4533.9	4607.9	4621.7	4433.8	4030.1	3808.3	2962.5
25°	5065.4	5025.4	4954.5	4882.1	4837.4	4823.5	4871.3	4720.3	4347.5	4118.0	3179.7
27.5°	5567.6	5499.9	5455.2	5305.7	5185.6	5167.1	5144.0	5062.3	4723.4	4475.4	3424.7
30°	6056.0	6002.1	5942.0	5703.2	5578.4	5558.4	5444.4	5467.5	5131.7	4855.9	3702.0
32.5°	6425.7	6430.4	6293.2	6113.0	5995.9	5889.6	5848.0	5914.3	5655.4	5433.6	4011.7
35°	6724.6	6738.5	6607.5	6444.2	6317.9	6391.8	6373.4	6404.2	6280.9	6009.8	4372.2
37.5°	7015.8	6946.4	6806.3	6727.7	6661.4	6783.1	6940.3	6966.5	6989.6	6670.7	4791.2
40°	7063.5	7069.7	6988.0	7043.5	6960.3	7143.6	7508.8	7474.9	7568.8	7290.0	5245.7
42.5°	6995.7	7009.6	7042.0	7120.5	7320.8	7541.1	8083.4	7944.7	8058.7	7810.7	5687.8
45°	6884.8	6827.8	6867.9	7166.8	7513.4	8003.3	8608.7	8500.9	8463.9	8255.9	6214.7
47.5°	6354.9	6413.4	6538.2	6906.4	7427.1	8083.4	8981.5	8956.9	9067.8	8921.5	6693.8
50°	5620.0	5596.9	5837.2	6251.7	6923.3	7926.3	8961.5	9184.9	9423.7	9220.3	6907.9
52.5°	4208.8	4332.1	4538.5	5053.1	6011.3	7069.7	8524.0	8896.8	9090.9	9047.8	6735.4
55°	2660.6	2697.5	2822.3	3433.9	4296.7	5673.9	7306.9	8171.2	8517.8	8679.6	6576.7
57.5°	1292.5	1223.2	1375.7	1867.2	2481.9	3816.0	5635.4	7117.5	7870.8	8163.5	6231.6
60°	674.8	701.0	761.0	936.7	1283.3	1981.2	3512.5	4743.4	5894.2	6344.1	4723.4
62.5°	559.2	568.5	608.5	696.3	853.5	1140.0	1793.2	2312.4	3005.7	3410.8	2686.8
65°	474.5	479.1	522.3	580.8	680.9	802.6	922.8	965.9	1169.3	1200.1	955.2
67.5°	395.9	400.5	446.8	502.2	566.9	599.3	630.1	627.0	650.1	640.9	639.3
70°	305.0	309.7	357.4	416.0	448.3	429.8	525.3	546.9	556.1	563.9	576.2
72.5°	220.3	229.5	266.5	308.1	291.2	334.3	432.9	465.3	477.6	482.2	497.6
75°	160.2	163.3	172.5	160.2	184.9	232.6	305.0	345.1	360.5	365.1	388.2
77.5°	70.9	72.4	73.9	92.4	118.6	144.8	181.8	214.1	235.7	241.9	248.0
80°	37.0	38.5	47.8	63.2	84.7	106.3	132.5	151.0	164.8	166.4	172.5
82.5°	23.1	24.6	33.9	44.7	60.1	78.6	97.1	112.5	123.2	124.8	126.3
85°	10.8	13.9	20.0	27.7	40.1	50.8	52.4	44.7	47.8	49.3	46.2
87.5°	3.1	4.6	6.2	4.6	6.2	6.2	7.7	9.2	9.2	9.2	10.8
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°	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1
2.5°	1760.9	1747.0	1693.1	1673.1	1620.7	1629.9	1602.2	1600.7	1594.5	1593.0	1591.4
5°	1804.0	1760.9	1696.2	1646.9	1617.6	1614.5	1594.5	1594.5	1600.7	1605.3	1594.5
7.5°	1874.9	1825.6	1716.2	1670.0	1643.8	1639.2	1625.3	1614.5	1628.4	1623.8	1611.4
10°	1956.5	1870.3	1754.7	1714.7	1671.5	1660.7	1660.7	1665.4	1642.3	1650.0	1637.6
12.5°	2047.4	1931.9	1804.0	1757.8	1707.0	1700.8	1697.7	1663.8	1676.1	1670.0	1639.2
15°	2163.0	2002.7	1867.2	1788.6	1745.5	1717.7	1677.7	1671.5	1663.8	1648.4	1634.5
17.5°	2287.8	2079.8	1896.4	1797.9	1733.1	1713.1	1682.3	1650.0	1626.8	1629.9	1619.1
20°	2394.1	2150.6	1907.2	1807.1	1723.9	1685.4	1637.6	1617.6	1593.0	1591.4	1589.9
22.5°	2520.4	2246.2	1922.6	1782.4	1696.2	1656.1	1623.8	1588.3	1571.4	1549.8	1560.6
25°	2671.4	2283.1	1925.7	1768.6	1676.1	1605.3	1588.3	1549.8	1543.7	1512.8	1519.0
27.5°	2780.7	2303.2	1901.1	1725.4	1629.9	1576.0	1545.2	1517.5	1506.7	1483.6	1477.4
30°	2927.1	2334.0	1848.7	1671.5	1583.7	1523.6	1505.1	1499.0	1468.2	1443.5	1440.4
32.5°	3093.5	2354.0	1814.8	1616.1	1536.0	1489.7	1499.0	1469.7	1431.2	1409.6	1403.5
35°	3226.0	2361.7	1730.1	1552.9	1503.6	1474.3	1463.5	1457.4	1401.9	1381.9	1366.5
37.5°	3427.8	2344.8	1659.2	1508.2	1468.2	1457.4	1448.1	1406.5	1343.4	1314.1	1292.5
40°	3663.5	2340.1	1568.3	1445.1	1434.3	1446.6	1418.9	1354.2	1266.4	1234.0	1218.6
42.5°	3890.0	2372.5	1511.3	1411.2	1397.3	1401.9	1363.4	1266.4	1223.2	1204.7	1180.1
45°	4268.9	2440.3	1417.3	1358.8	1352.6	1349.5	1303.3	1201.6	1177.0	1153.9	1149.3
47.5°	4610.9	2395.6	1357.2	1304.9	1311.0	1294.1	1195.5	1163.1	1135.4	1112.3	1104.6
50°	4631.0	2289.3	1272.5	1263.3	1264.8	1235.5	1141.6	1120.0	1084.6	1069.2	1058.4
52.5°	4526.2	2115.2	1193.9	1197.0	1201.6	1153.9	1075.3	1059.9	1030.6	1009.1	1002.9
55°	4232.0	1844.1	1116.9	1129.2	1141.6	1050.7	1026.0	987.5	964.4	933.6	935.1
57.5°	3728.2	1485.1	1009.1	1029.1	1055.3	955.2	936.7	888.9	855.0	830.4	827.3
60°	2498.8	1056.8	847.3	855.0	913.6	873.5	872.0	824.2	778.0	756.4	744.1
62.5°	1474.3	807.3	731.8	724.1	722.5	745.6	784.2	767.2	707.1	665.5	677.9
65°	771.8	697.9	680.9	654.7	639.3	633.2	662.4	670.1	630.1	585.4	582.3
67.5°	648.6	648.6	634.7	625.5	603.9	577.7	559.2	534.6	528.4	516.1	500.7
70°	590.0	605.4	600.8	579.3	560.8	531.5	483.7	443.7	405.2	391.3	400.5
72.5°	514.6	530.0	530.0	519.2	494.5	449.8	403.6	357.4	325.1	300.4	297.3
75°	395.9	403.6	422.1	409.8	377.4	349.7	302.0	254.2	223.4	200.3	195.7
77.5°	252.7	265.0	265.0	263.4	240.3	214.1	183.3	149.4	126.3	109.4	104.8
80°	167.9	175.6	181.8	175.6	160.2	140.2	117.1	94.0	77.0	63.2	60.1
82.5°	123.2	132.5	137.1	130.9	115.5	100.1	83.2	66.2	49.3	38.5	35.4
85°	47.8	49.3	55.5	66.2	64.7	63.2	50.8	37.0	27.7	20.0	18.5
87.5°	12.3	10.8	12.3	12.3	10.8	9.2	9.2	9.2	9.2	4.6	6.2
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)