

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: P527748

Luminaire Tested: **GALN-SA2D-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527748
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-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 12735 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

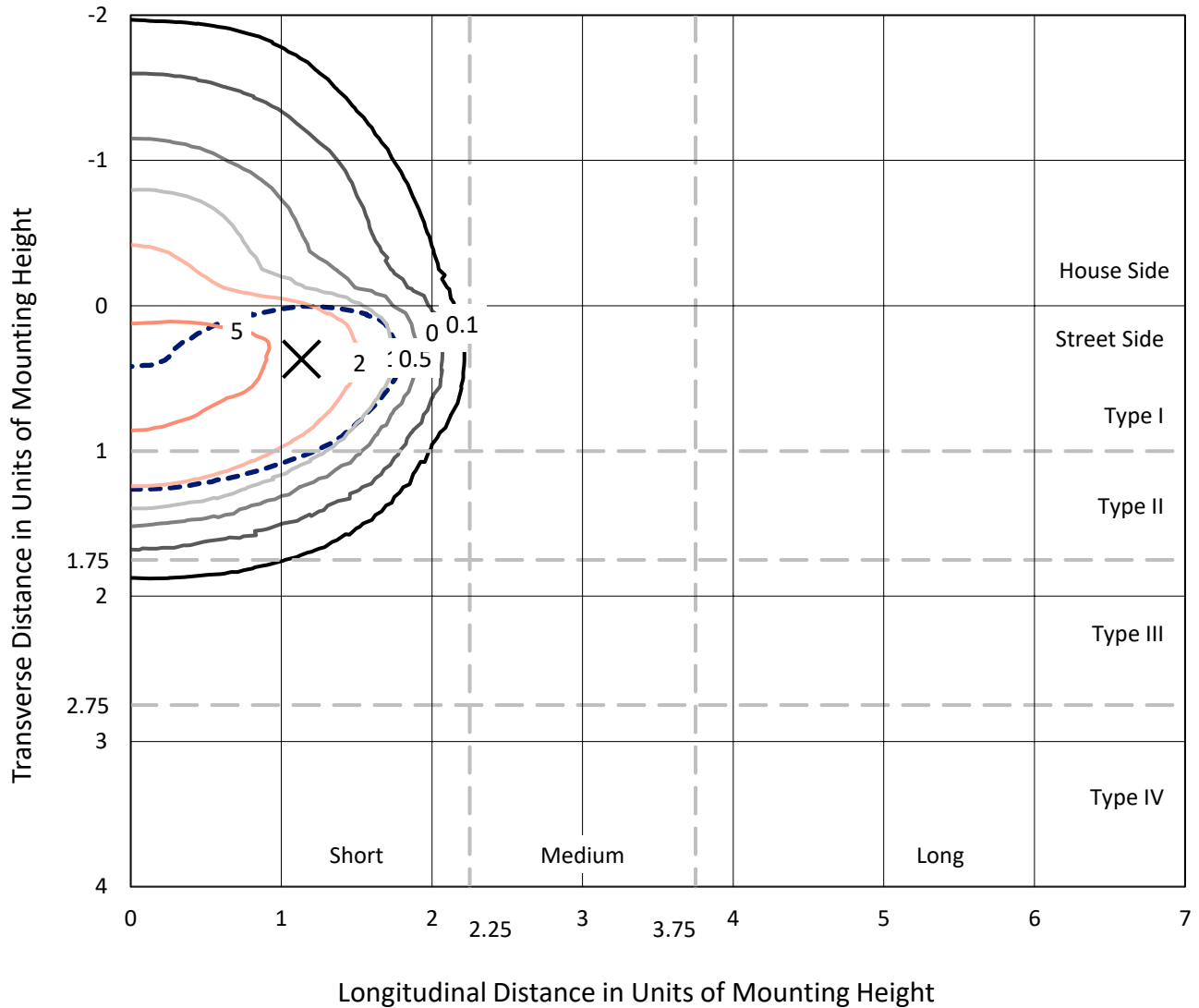
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

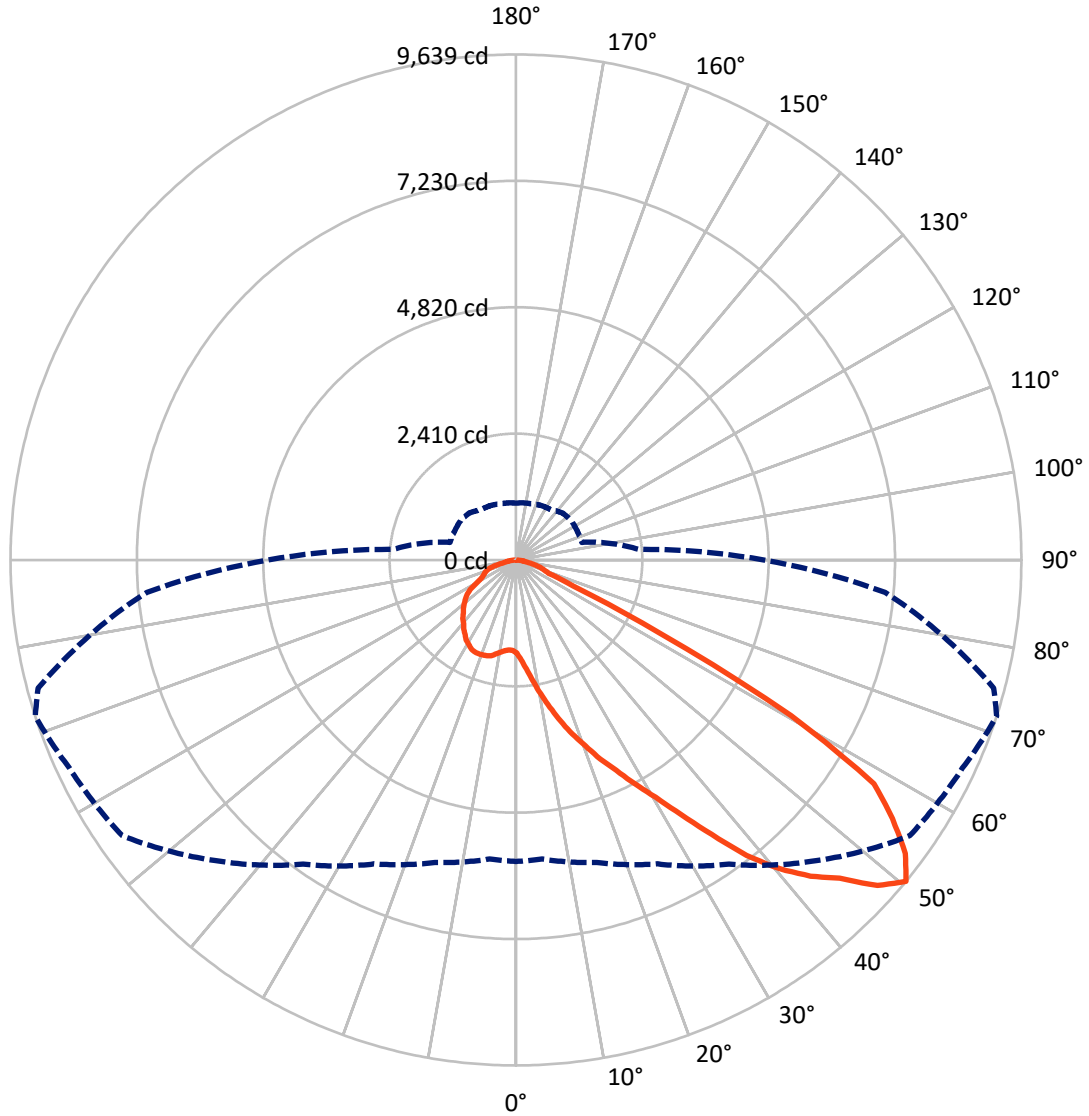
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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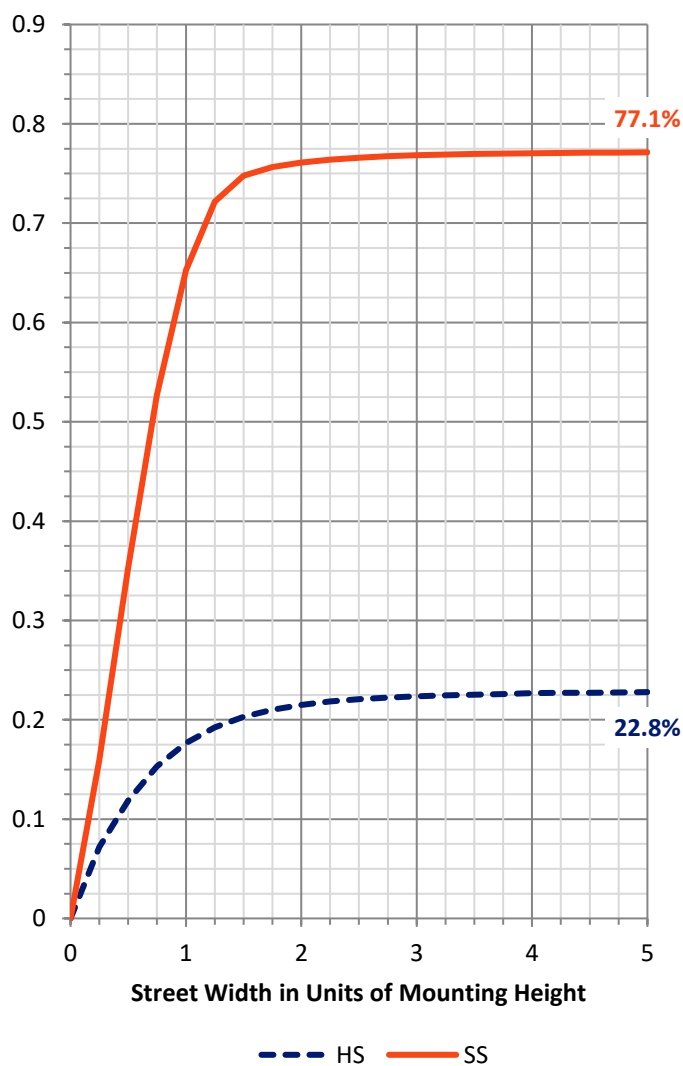
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2917.7	0.0	2917.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9817.3	0.0	9817.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	12735.0	0.0	12735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	1.6
10°-20°	779.5	6.1
20°-30°	1511.5	11.9
30°-40°	2504.0	19.7
40°-50°	3503.7	27.5
50°-60°	2955.8	23.2
60°-70°	900.9	7.1
70°-80°	316.1	2.5
80°-90°	55.0	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°	12735.0	100.0
0°-180°	12735.0	100.0

Coefficient of Utilization



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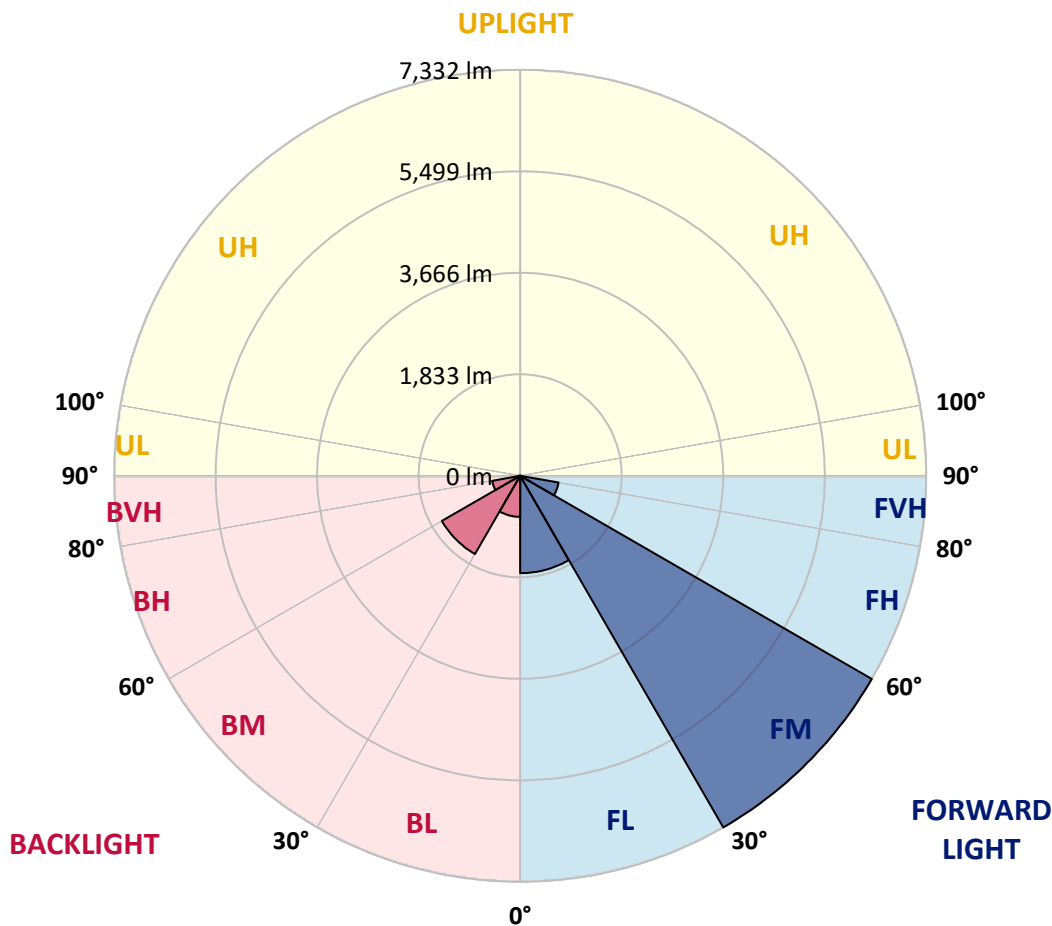
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1757.9	13.8			
FM (30°-60°)	7331.9	57.6			
FH (60°-80°)	703.0	5.5			G1/1800
FVH (80°-90°)	24.6	0.2			G1/100
BL (0°-30°)	741.7	5.8	B2/1000		
BM (30°-60°)	1631.6	12.8	B2/2500		
BH (60°-80°)	514.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	30.3	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°	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8
2.5°	2280.2	2266.1	2223.5	2209.3	2158.9	2067.5	2036.0	1943.0	1903.6	1867.4	1824.8
5°	2883.8	2817.6	2812.9	2732.5	2615.9	2548.1	2346.4	2210.9	2086.4	2023.4	1906.8
7.5°	3268.3	3269.9	3269.9	3203.7	3110.7	2938.9	2757.7	2513.5	2325.9	2233.0	2034.4
10°	3633.9	3602.4	3585.0	3578.7	3515.7	3348.7	3154.8	2852.3	2595.4	2486.7	2130.5
12.5°	3892.3	3865.5	3904.9	3884.4	3838.7	3730.0	3547.2	3202.1	2880.6	2734.1	2285.0
15°	4015.2	4034.2	4065.7	4122.4	4101.9	4060.9	3859.2	3561.4	3187.9	3022.5	2422.1
17.5°	4204.3	4152.3	4190.2	4261.1	4317.8	4298.9	4183.9	3821.4	3492.1	3288.8	2606.4
20°	4336.7	4306.8	4325.7	4407.6	4450.2	4557.3	4497.4	4161.8	3783.6	3569.3	2823.9
22.5°	4714.9	4670.8	4609.3	4621.9	4637.7	4713.3	4727.5	4535.3	4122.4	3895.5	3030.3
25°	5181.4	5140.4	5067.9	4993.8	4948.1	4934.0	4982.8	4828.4	4447.0	4212.2	3252.5
27.5°	5695.1	5625.8	5580.1	5427.2	5304.3	5285.4	5261.7	5178.2	4831.5	4577.8	3503.1
30°	6194.6	6139.5	6078.0	5833.8	5706.1	5685.6	5569.0	5592.7	5249.1	4967.0	3786.7
32.5°	6572.8	6577.6	6437.3	6252.9	6133.2	6024.4	5981.9	6049.7	5784.9	5558.0	4103.5
35°	6878.5	6892.7	6758.8	6591.7	6462.5	6538.2	6519.3	6550.8	6424.7	6147.4	4472.2
37.5°	7176.4	7105.5	6962.1	6881.7	6813.9	6938.4	7099.2	7126.0	7149.6	6823.4	4900.9
40°	7225.2	7231.5	7148.0	7204.7	7119.6	7307.2	7680.6	7646.0	7742.1	7456.9	5365.7
42.5°	7155.9	7170.1	7203.2	7283.5	7488.4	7713.7	8268.4	8126.6	8243.2	7989.5	5818.0
45°	7042.4	6984.1	7025.1	7330.8	7685.4	8186.5	8805.8	8695.5	8657.7	8444.9	6356.9
47.5°	6500.3	6560.2	6687.9	7064.5	7597.1	8268.4	9187.2	9161.9	9275.4	9125.7	6847.0
50°	5748.7	5725.0	5970.9	6394.8	7081.8	8107.7	9166.7	9395.2	9639.4	9431.4	7066.1
52.5°	4305.2	4431.3	4642.4	5168.8	6148.9	7231.5	8719.1	9100.5	9299.0	9254.9	6889.6
55°	2721.5	2759.3	2886.9	3512.5	4395.0	5803.8	7474.2	8358.3	8712.8	8878.3	6727.3
57.5°	1322.1	1251.2	1407.2	1909.9	2538.7	3903.4	5764.4	7280.4	8051.0	8350.4	6374.3
60°	690.2	717.0	778.5	958.1	1312.7	2026.5	3592.9	4852.0	6029.2	6489.3	4831.5
62.5°	572.0	581.5	622.5	712.3	873.0	1166.1	1834.3	2365.3	3074.5	3488.9	2748.3
65°	485.4	490.1	534.2	594.1	696.5	821.0	943.9	988.1	1196.1	1227.6	977.0
67.5°	405.0	409.7	457.0	513.7	579.9	613.0	644.5	641.4	665.0	655.5	654.0
70°	312.0	316.7	365.6	425.5	458.6	439.7	537.4	559.4	568.9	576.8	589.4
72.5°	225.3	234.8	272.6	315.2	297.8	342.0	442.8	475.9	488.5	493.2	509.0
75°	163.9	167.0	176.5	163.9	189.1	238.0	312.0	353.0	368.7	373.5	397.1
77.5°	72.5	74.1	75.6	94.6	121.3	148.1	185.9	219.0	241.1	247.4	253.7
80°	37.8	39.4	48.9	64.6	86.7	108.7	135.5	154.4	168.6	170.2	176.5
82.5°	23.6	25.2	34.7	45.7	61.5	80.4	99.3	115.0	126.1	127.6	129.2
85°	11.0	14.2	20.5	28.4	41.0	52.0	53.6	45.7	48.9	50.4	47.3
87.5°	3.2	4.7	6.3	4.7	6.3	6.3	7.9	9.5	9.5	9.5	11.0
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°	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8	1772.8
2.5°	1801.2	1787.0	1731.8	1711.4	1657.8	1667.2	1638.9	1637.3	1631.0	1629.4	1627.8
5°	1845.3	1801.2	1735.0	1684.6	1654.6	1651.5	1631.0	1631.0	1637.3	1642.0	1631.0
7.5°	1917.8	1867.4	1755.5	1708.2	1681.4	1676.7	1662.5	1651.5	1665.7	1660.9	1648.3
10°	2001.3	1913.1	1794.9	1753.9	1709.8	1698.8	1698.8	1703.5	1679.8	1687.7	1675.1
12.5°	2094.3	1976.1	1845.3	1798.0	1746.0	1739.7	1736.6	1701.9	1714.5	1708.2	1676.7
15°	2212.5	2048.6	1909.9	1829.6	1785.4	1757.1	1716.1	1709.8	1701.9	1686.1	1672.0
17.5°	2340.1	2127.4	1939.9	1839.0	1772.8	1752.3	1720.8	1687.7	1664.1	1667.2	1656.2
20°	2448.9	2199.9	1950.9	1848.5	1763.4	1724.0	1675.1	1654.6	1629.4	1627.8	1626.3
22.5°	2578.1	2297.6	1966.6	1823.2	1735.0	1694.0	1660.9	1624.7	1607.4	1585.3	1596.3
25°	2732.5	2335.4	1969.8	1809.1	1714.5	1642.0	1624.7	1585.3	1579.0	1547.5	1553.8
27.5°	2844.4	2355.9	1944.6	1764.9	1667.2	1612.1	1580.6	1552.2	1541.2	1517.5	1511.2
30°	2994.1	2387.4	1891.0	1709.8	1620.0	1558.5	1539.6	1533.3	1501.8	1476.6	1473.4
32.5°	3164.3	2407.9	1856.3	1653.1	1571.1	1523.8	1533.3	1503.4	1464.0	1441.9	1435.6
35°	3299.8	2415.8	1769.7	1588.4	1538.0	1508.1	1497.0	1490.7	1434.0	1413.5	1397.8
37.5°	3506.2	2398.4	1697.2	1542.7	1501.8	1490.7	1481.3	1438.7	1374.1	1344.2	1322.1
40°	3747.3	2393.7	1604.2	1478.1	1467.1	1479.7	1451.3	1385.2	1295.3	1262.2	1246.5
42.5°	3979.0	2426.8	1545.9	1443.5	1429.3	1434.0	1394.6	1295.3	1251.2	1232.3	1207.1
45°	4366.7	2496.1	1449.8	1389.9	1383.6	1380.4	1333.2	1229.2	1203.9	1180.3	1175.6
47.5°	4716.5	2450.4	1388.3	1334.7	1341.0	1323.7	1222.9	1189.8	1161.4	1137.8	1129.9
50°	4737.0	2341.7	1301.6	1292.2	1293.8	1263.8	1167.7	1145.6	1109.4	1093.6	1082.6
52.5°	4629.8	2163.6	1221.3	1224.4	1229.2	1180.3	1099.9	1084.2	1054.2	1032.2	1025.9
55°	4328.8	1886.3	1142.5	1155.1	1167.7	1074.7	1049.5	1010.1	986.5	955.0	956.5
57.5°	3813.5	1519.1	1032.2	1052.7	1079.5	977.0	958.1	909.3	874.6	849.4	846.2
60°	2556.0	1081.0	866.7	874.6	934.5	893.5	891.9	843.1	795.8	773.7	761.1
62.5°	1508.1	825.7	748.5	740.6	739.1	762.7	802.1	784.8	723.3	680.8	693.4
65°	789.5	713.9	696.5	669.7	654.0	647.7	677.6	685.5	644.5	598.8	595.7
67.5°	663.4	663.4	649.2	639.8	617.7	590.9	572.0	546.8	540.5	527.9	512.1
70°	603.5	619.3	614.6	592.5	573.6	543.7	494.8	453.8	414.4	400.3	409.7
72.5°	526.3	542.1	542.1	531.1	505.8	460.1	412.9	365.6	332.5	307.3	304.1
75°	405.0	412.9	431.8	419.2	386.1	357.7	308.9	260.0	228.5	204.9	200.1
77.5°	258.4	271.0	271.0	269.5	245.8	219.0	187.5	152.9	129.2	111.9	107.2
80°	171.8	179.6	185.9	179.6	163.9	143.4	119.8	96.1	78.8	64.6	61.5
82.5°	126.1	135.5	140.2	133.9	118.2	102.4	85.1	67.8	50.4	39.4	36.2
85°	48.9	50.4	56.7	67.8	66.2	64.6	52.0	37.8	28.4	20.5	18.9
87.5°	12.6	11.0	12.6	12.6	11.0	9.5	9.5	9.5	9.5	4.7	6.3
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)