

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: P528624

Luminaire Tested: **GALN-SA3D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16339 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

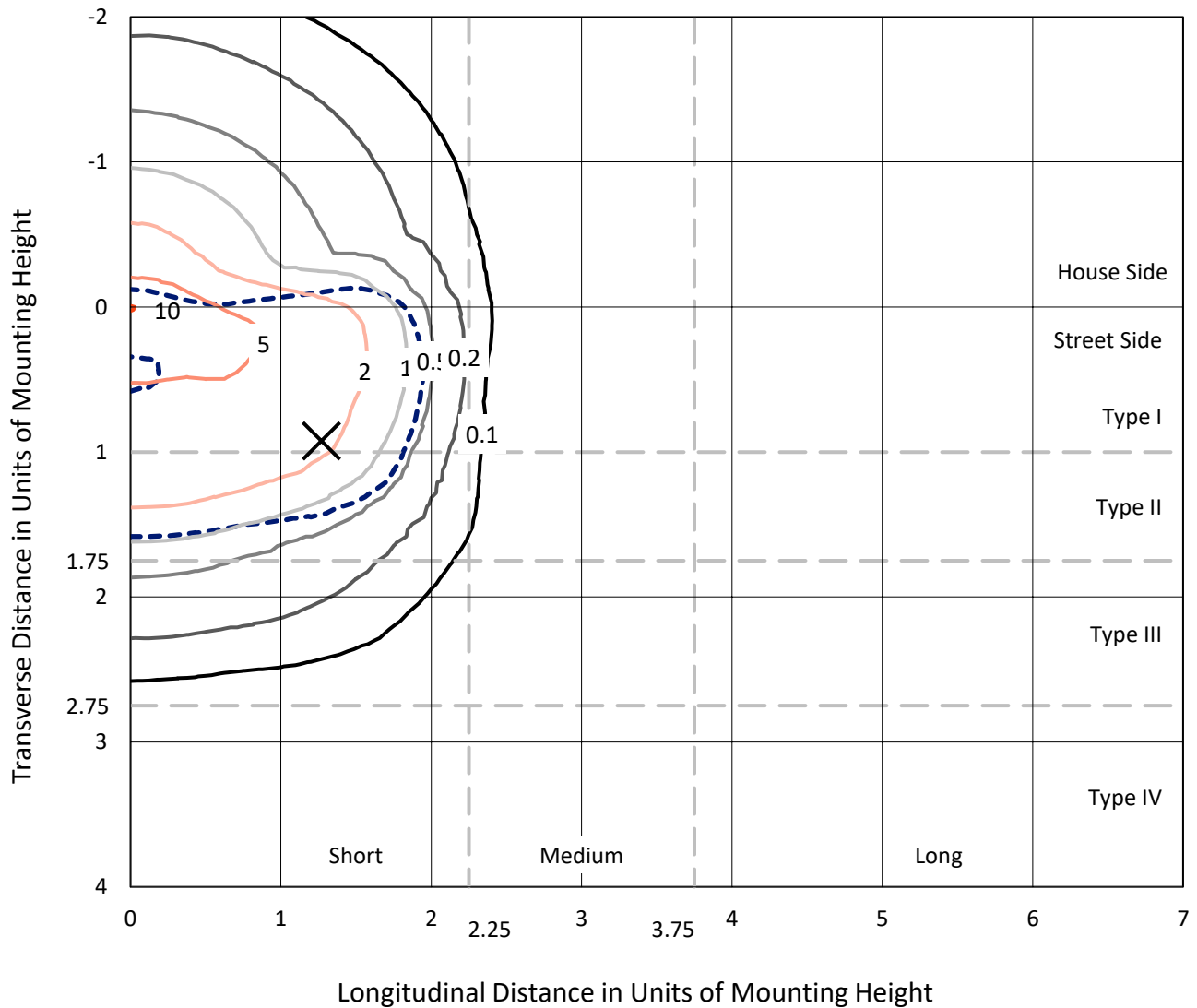
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

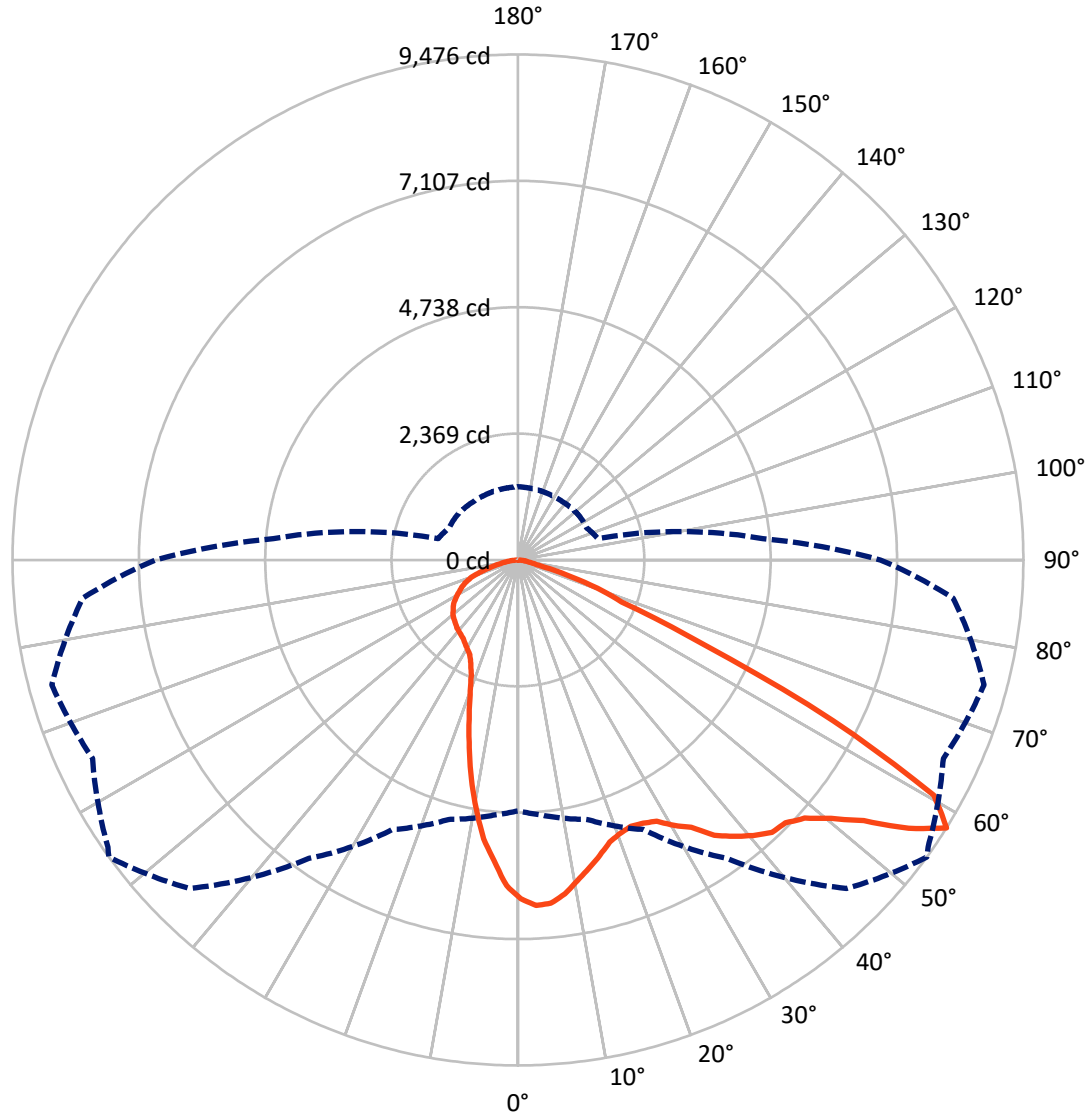
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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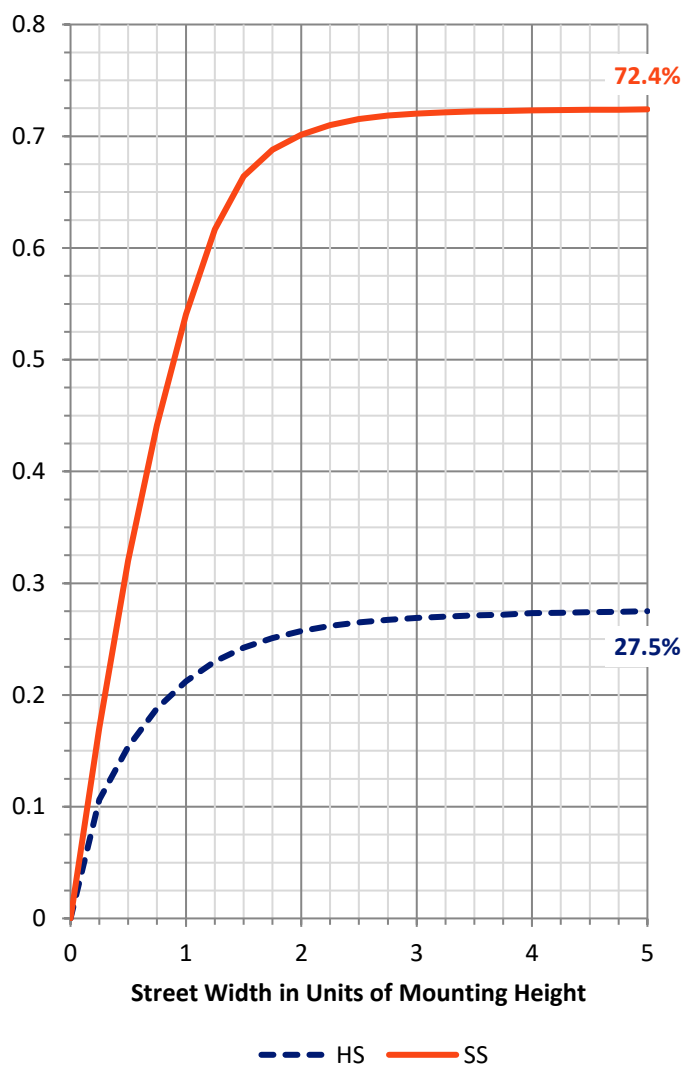
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4520.3	0.0	4520.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	11818.7	0.0	11818.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	16339.0	0.0	16339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.7	3.4
10°-20°	1268.1	7.8
20°-30°	1781.7	10.9
30°-40°	2490.8	15.2
40°-50°	3372.1	20.6
50°-60°	4107.4	25.1
60°-70°	2139.3	13.1
70°-80°	548.2	3.4
80°-90°	83.6	0.5
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°	16339.0	100.0
0°-180°	16339.0	100.0

Coefficient of Utilization



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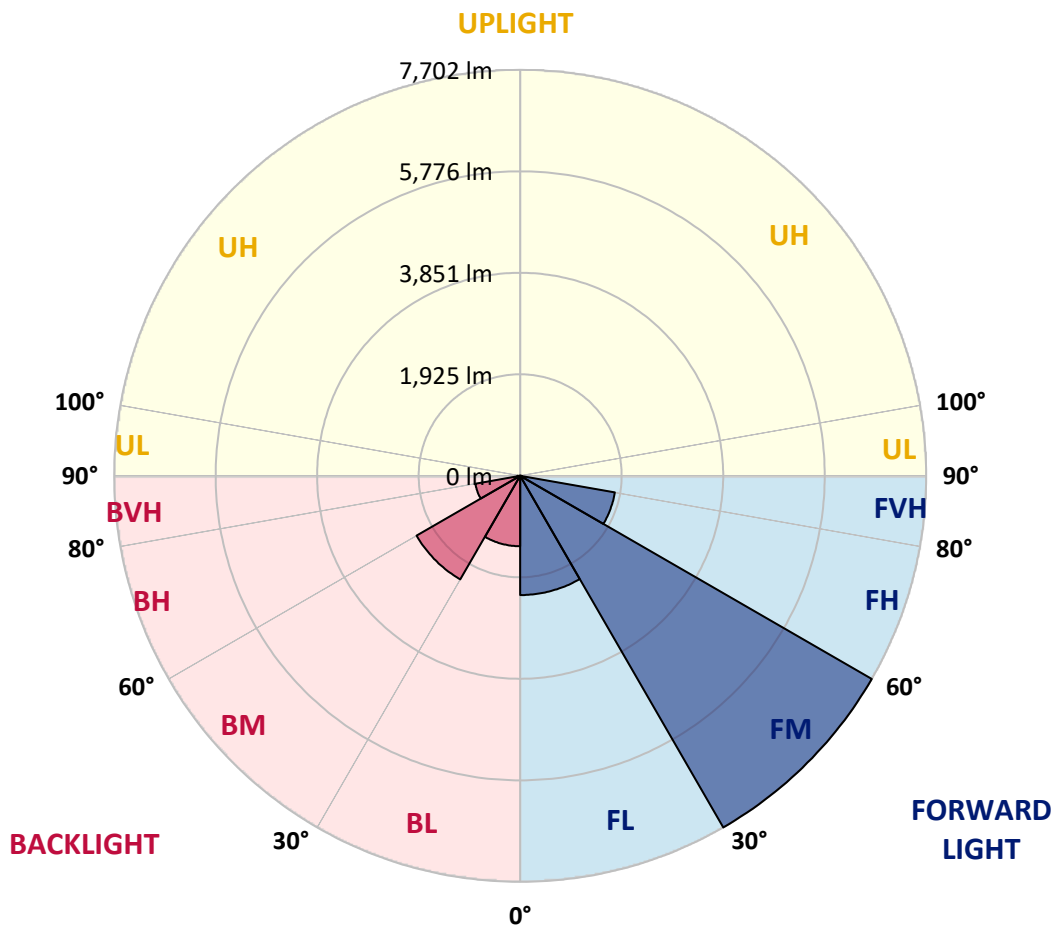
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2261.5	13.8			
FM (30°-60°)	7701.7	47.1			
FH (60°-80°)	1823.9	11.2			G2/5000
FVH (80°-90°)	31.6	0.2			G1/100
BL (0°-30°)	1336.0	8.2	B3/2500		
BM (30°-60°)	2268.7	13.9	B2/2500		
BH (60°-80°)	863.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	52.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8
2.5°	6531.4	6506.2	6510.4	6544.0	6502.0	6485.2	6485.2	6403.3	6409.6	6352.9	6338.2
5°	6380.2	6321.4	6361.3	6411.7	6420.1	6436.9	6464.2	6443.2	6384.4	6323.5	6224.8
7.5°	5985.4	6037.9	6052.6	6088.3	6163.9	6233.2	6319.3	6260.5	6258.4	6197.5	6138.7
10°	5638.8	5607.3	5687.1	5739.6	5865.7	5981.2	6113.5	6107.2	6138.7	6069.4	5968.6
12.5°	5294.4	5269.2	5307.0	5426.7	5603.1	5771.1	5928.7	5869.9	6037.9	6025.3	5808.9
15°	4929.0	4947.9	5002.5	5113.8	5344.8	5546.4	5745.9	5748.0	5897.2	5947.6	5657.7
17.5°	4672.8	4651.8	4721.1	4887.0	5092.8	5334.3	5561.1	5607.3	5836.3	5865.7	5611.5
20°	4481.7	4511.1	4601.4	4685.4	4922.7	5214.6	5470.8	5487.6	5823.7	5903.5	5538.0
22.5°	4435.5	4418.7	4448.1	4584.6	4779.9	5097.0	5422.5	5485.5	5821.6	5890.9	5399.4
25°	4387.2	4441.8	4439.7	4576.2	4719.0	5002.5	5462.4	5531.7	5932.9	5956.0	5418.3
27.5°	4496.4	4490.1	4548.9	4559.4	4735.8	5027.7	5546.4	5598.9	6117.7	6098.8	5433.0
30°	4605.6	4574.1	4609.8	4733.7	4815.6	5172.6	5777.4	5773.2	6357.1	6344.5	5479.2
32.5°	4740.0	4725.3	4748.4	4857.6	4996.2	5365.8	5972.8	6096.7	6600.7	6680.5	5638.8
35°	4765.2	4826.1	4880.7	5027.7	5225.1	5678.7	6340.3	6443.2	6882.1	7132.0	5943.4
37.5°	4924.8	4947.9	5076.0	5336.4	5517.0	6096.7	6573.4	6638.5	7138.3	7421.8	6264.7
40°	5094.9	5122.2	5315.4	5588.4	5836.3	6369.7	6791.8	6812.8	7220.2	7644.5	6474.7
42.5°	5325.9	5351.1	5542.2	5884.6	6216.4	6602.8	6985.0	7008.1	7213.9	7900.7	6808.6
45°	5565.3	5626.2	5851.0	6239.5	6537.7	6875.8	7029.1	7123.6	7272.7	8129.6	7079.5
47.5°	5901.4	5958.1	6142.9	6523.0	6871.6	7115.2	7232.8	7325.2	7413.4	8329.1	7253.8
50°	6258.4	6268.9	6493.6	6838.0	7094.2	7386.1	7613.0	7644.5	7598.3	8560.1	7550.0
52.5°	6520.9	6554.5	6728.8	7064.8	7447.0	7806.2	8117.0	8150.6	8060.3	8646.2	7650.8
55°	6086.2	6067.3	6350.8	6798.1	7684.4	8432.0	8883.5	8908.7	8396.3	8912.9	7980.5
57.5°	4704.3	4794.6	5036.1	5575.8	6827.5	8709.2	9475.8	9385.5	8799.5	9047.3	8190.5
60°	3419.0	3398.0	3559.7	3920.9	5145.3	7505.9	8959.1	9051.5	8469.8	8154.8	6754.0
62.5°	2784.8	2755.4	2768.0	2780.6	3320.3	4981.5	6632.2	6630.1	6523.0	5861.5	4555.2
65°	2226.1	2295.4	2301.7	2396.2	2465.5	2975.9	3843.2	4049.0	3526.1	2891.9	2098.0
67.5°	1678.0	1652.8	1736.8	2072.8	2203.0	2148.4	2098.0	2121.1	1507.9	1087.9	1024.9
70°	989.2	978.7	1079.5	1444.9	1814.5	1707.4	1581.4	1583.5	1035.4	760.2	846.4
72.5°	541.8	539.7	560.7	732.9	1031.2	1071.1	949.3	978.7	617.4	615.3	661.5
75°	302.4	296.1	289.8	323.4	371.7	392.7	401.1	405.3	424.2	474.6	493.5
77.5°	111.3	107.1	107.1	123.9	157.5	197.4	249.9	254.1	300.3	344.4	363.3
80°	37.8	42.0	56.7	77.7	105.0	140.7	170.1	174.3	212.1	241.5	247.8
82.5°	23.1	25.2	37.8	54.6	75.6	98.7	126.0	128.1	157.5	176.4	184.8
85°	10.5	12.6	21.0	33.6	48.3	65.1	67.2	67.2	65.1	67.2	63.0
87.5°	0.0	0.0	4.2	4.2	4.2	6.3	8.4	6.3	10.5	12.6	12.6
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°	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8	6350.8
2.5°	6294.1	6271.0	6199.6	6136.6	6117.7	6033.7	5909.8	5924.5	5834.2	5876.2	5832.1
5°	6208.0	6130.3	5947.6	5869.9	5666.1	5573.7	5510.7	5353.2	5279.7	5265.0	5202.0
7.5°	5987.5	5939.2	5710.2	5500.2	5283.9	5099.1	4861.8	4700.1	4584.6	4553.1	4460.7
10°	5813.1	5706.0	5388.9	5069.7	4761.0	4439.7	4130.9	3889.4	3771.8	3635.3	3589.1
12.5°	5640.9	5479.2	5050.8	4641.3	4242.3	3836.9	3463.1	3169.1	2912.9	2852.0	2831.0
15°	5533.8	5252.4	4748.4	4254.9	3687.8	3158.6	2784.8	2591.6	2434.0	2368.9	2415.1
17.5°	5393.1	5065.5	4458.6	3801.2	3177.5	2690.3	2377.3	2257.6	2200.9	2207.2	2188.3
20°	5216.7	4889.1	4078.4	3389.6	2721.8	2333.2	2154.7	2110.6	2119.0	2133.7	2127.4
22.5°	5090.7	4674.9	3803.3	2969.6	2352.1	2135.8	2062.3	2030.8	2058.1	2070.7	2060.2
25°	4994.1	4492.2	3469.4	2597.9	2137.9	2024.5	1990.9	1988.8	2030.8	2047.6	2037.1
27.5°	4905.9	4322.1	3137.6	2314.3	1995.1	1938.4	1927.9	1953.1	1980.4	1997.2	2011.9
30°	4853.4	4191.9	2826.8	2077.0	1923.7	1896.4	1877.5	1900.6	1915.3	1932.1	1923.7
32.5°	4903.8	4099.4	2526.5	1942.6	1864.9	1837.6	1862.8	1848.1	1873.3	1888.0	1864.9
35°	5061.3	4017.5	2312.2	1871.2	1797.7	1808.2	1812.4	1806.1	1816.6	1804.0	1831.3
37.5°	5216.7	3988.1	2114.8	1810.3	1766.2	1766.2	1762.0	1749.4	1770.4	1766.2	1778.8
40°	5414.1	4007.0	1946.8	1745.2	1736.8	1732.6	1715.8	1713.7	1705.3	1707.4	1711.6
42.5°	5586.3	4049.0	1850.2	1703.2	1709.5	1717.9	1686.4	1661.2	1671.7	1650.7	1650.7
45°	5769.0	4086.8	1764.1	1673.8	1667.5	1665.4	1640.2	1625.5	1617.1	1619.2	1638.1
47.5°	6056.8	4141.4	1699.0	1633.9	1638.1	1606.6	1600.3	1581.4	1589.8	1602.4	1604.5
50°	6260.5	4257.0	1648.6	1587.7	1602.4	1581.4	1543.6	1535.2	1535.2	1556.2	1552.0
52.5°	6403.3	4418.7	1600.3	1537.3	1543.6	1526.8	1514.2	1495.3	1482.7	1512.1	1526.8
55°	6840.1	4687.5	1587.7	1495.3	1493.2	1476.4	1453.3	1434.4	1428.1	1432.3	1461.7
57.5°	6798.1	4603.5	1547.8	1421.8	1417.6	1394.5	1371.4	1365.1	1363.0	1367.2	1375.6
60°	5519.1	3400.1	1381.9	1337.8	1331.5	1327.3	1304.2	1279.0	1266.4	1279.0	1268.5
62.5°	3652.1	2276.5	1218.1	1237.0	1241.2	1230.7	1192.9	1167.7	1171.9	1186.6	1163.5
65°	1793.5	1337.8	1104.7	1155.1	1159.3	1129.9	1094.2	1064.8	1050.1	1062.7	1052.2
67.5°	1024.9	1022.8	1012.3	1064.8	1062.7	1033.3	976.6	951.4	926.2	930.4	924.1
70°	869.5	886.3	907.3	938.8	936.7	903.1	835.9	816.9	781.2	777.0	766.5
72.5°	684.6	714.0	760.2	783.3	764.4	722.4	678.3	646.8	615.3	596.4	602.7
75°	508.2	550.2	575.4	590.1	560.7	537.6	501.9	464.1	426.3	409.5	403.2
77.5°	369.6	382.2	405.3	415.8	396.9	373.8	352.8	315.0	279.3	256.2	249.9
80°	258.3	266.7	283.5	283.5	283.5	273.0	245.7	207.9	184.8	163.8	159.6
82.5°	180.6	189.0	205.8	197.4	195.3	182.7	165.9	136.5	111.3	96.6	92.4
85°	63.0	69.3	84.0	100.8	107.1	105.0	94.5	75.6	58.8	48.3	44.1
87.5°	14.7	14.7	16.8	14.7	14.7	16.8	14.7	14.7	14.7	10.5	8.4
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)