

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: P651289

Luminaire Tested: **GALN-SA3D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651289
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-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 16430.6 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

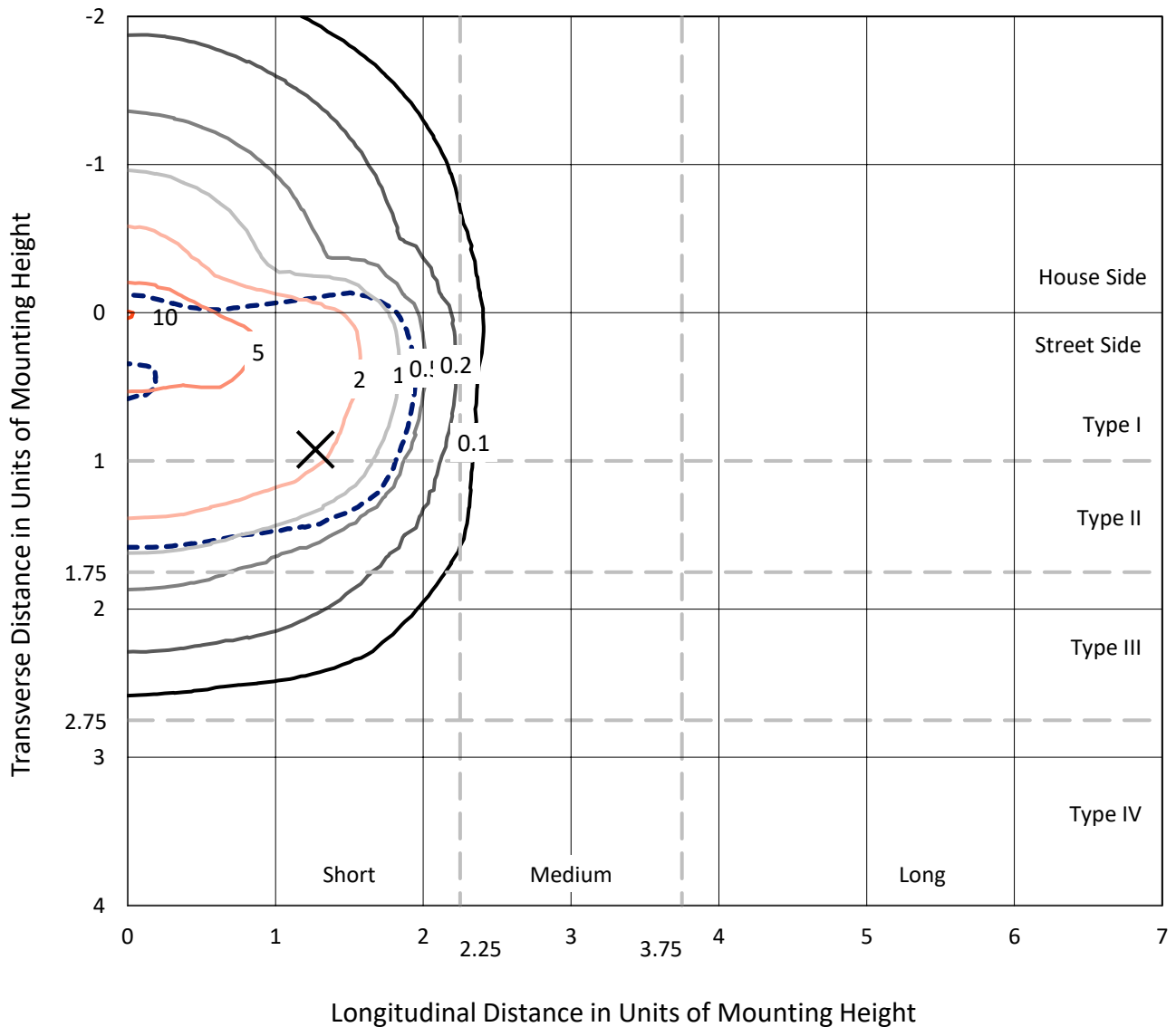
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

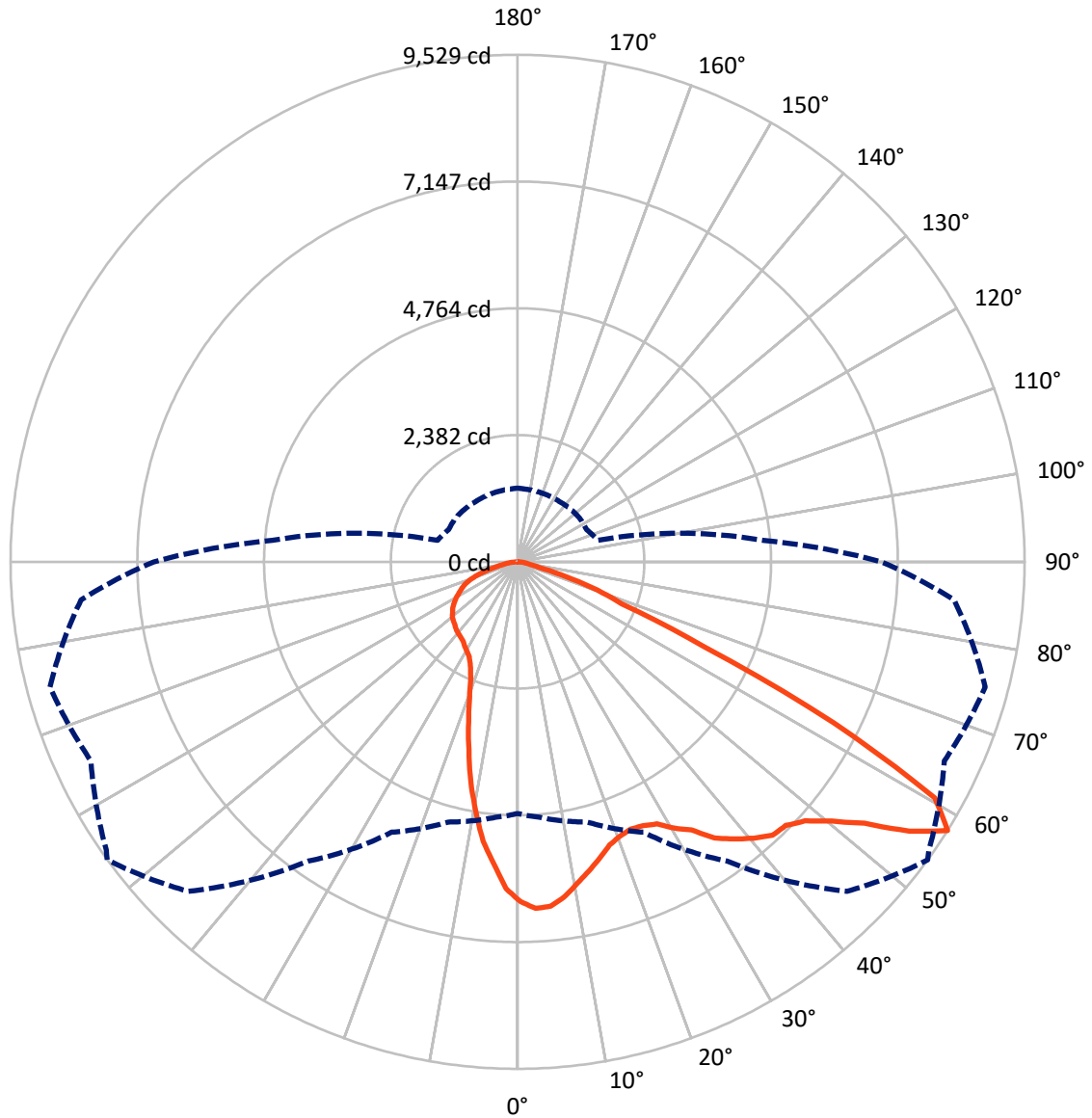
✕ Max cd
 - - - 1/2 Max cd



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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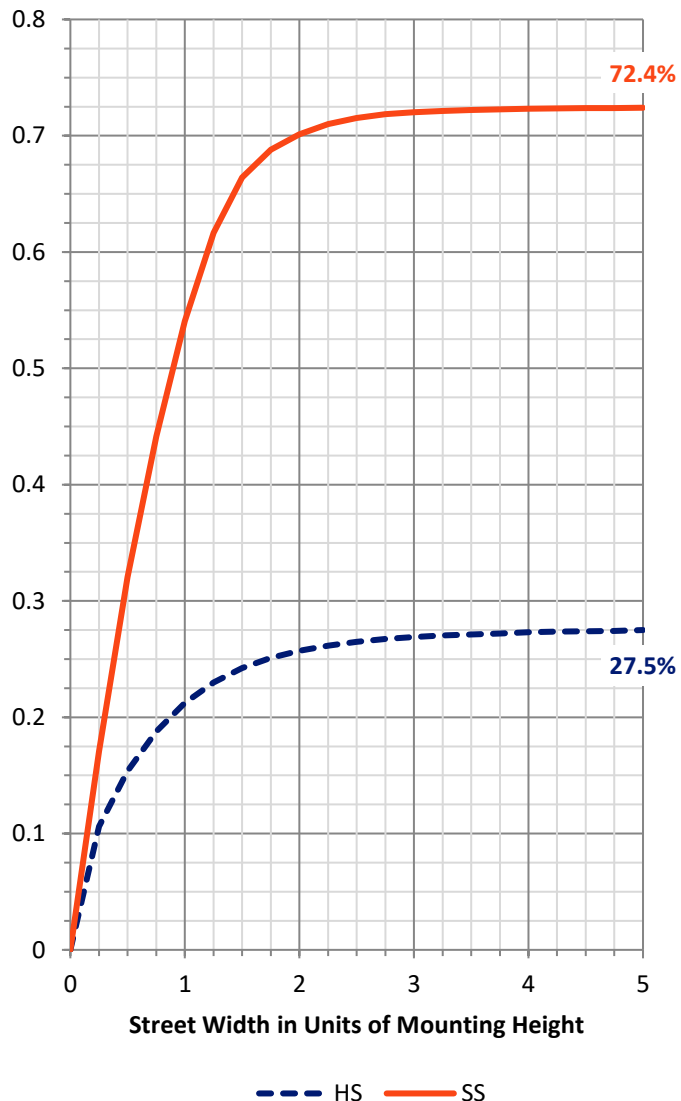
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4545.6	0.0	4545.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	11885.0	0.0	11885.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	16430.6	0.0	16430.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.8	3.4
10°-20°	1275.2	7.8
20°-30°	1791.7	10.9
30°-40°	2504.8	15.2
40°-50°	3391.0	20.6
50°-60°	4130.4	25.1
60°-70°	2151.3	13.1
70°-80°	551.2	3.4
80°-90°	84.1	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°	16430.6	100.0
0°-180°	16430.6	100.0

Coefficient of Utilization

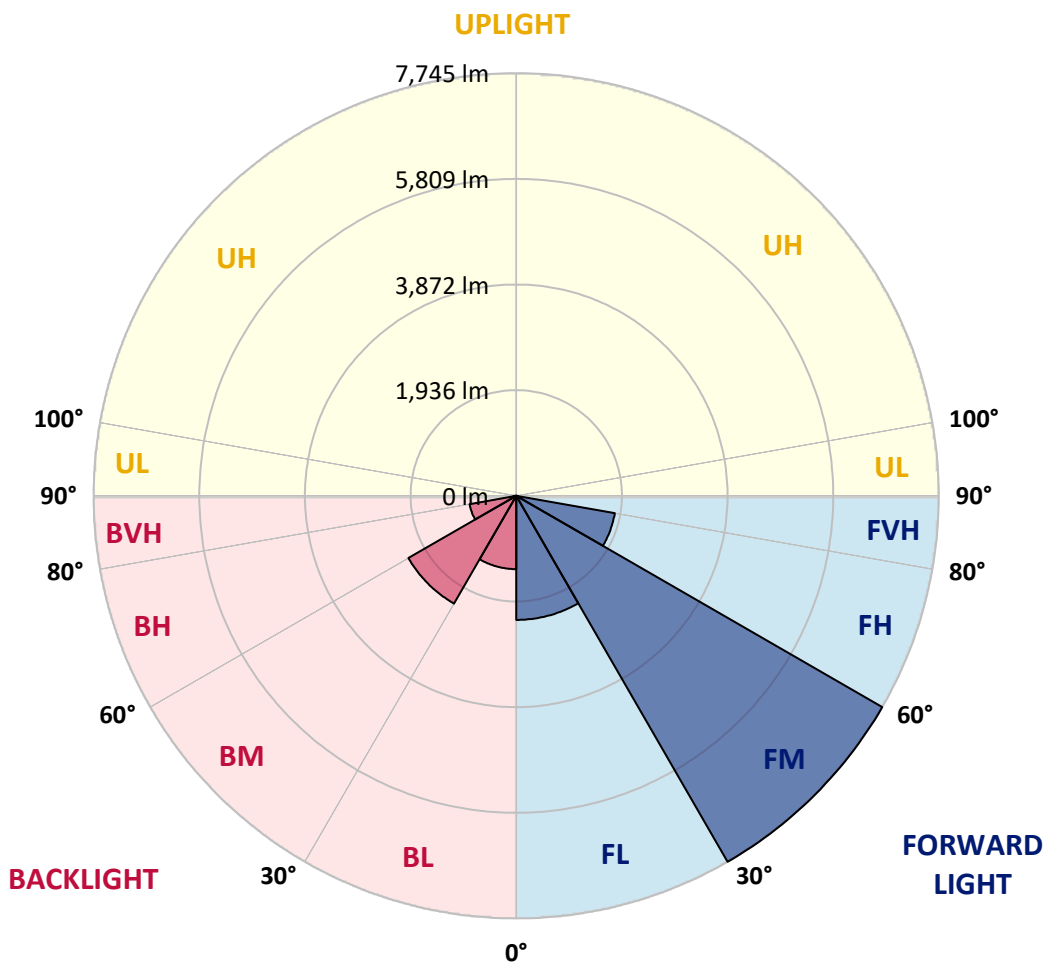


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2274.2	13.8			
FM (30°-60°)	7744.9	47.1			
FH (60°-80°)	1834.1	11.2			G2/5000
FVH (80°-90°)	31.8	0.2			G1/100
BL (0°-30°)	1343.5	8.2	B3/2500		
BM (30°-60°)	2281.4	13.9	B2/2500		
BH (60°-80°)	868.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	52.3	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°	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4
2.5°	6568.0	6542.6	6546.9	6580.7	6538.4	6521.5	6521.5	6439.2	6445.5	6388.5	6373.7
5°	6416.0	6356.9	6397.0	6447.6	6456.1	6473.0	6500.4	6479.3	6420.2	6359.0	6259.6
7.5°	6019.0	6071.7	6086.5	6122.4	6198.4	6268.1	6354.7	6295.6	6293.5	6232.2	6173.1
10°	5670.4	5638.8	5719.1	5771.9	5898.5	6014.7	6147.7	6141.4	6173.1	6103.4	6002.0
12.5°	5324.1	5298.8	5336.8	5457.2	5634.5	5803.5	5961.9	5902.7	6071.7	6059.1	5841.5
15°	4956.6	4975.6	5030.5	5142.5	5374.8	5577.5	5778.2	5780.3	5930.2	5980.9	5689.4
17.5°	4699.0	4677.9	4747.5	4914.4	5121.4	5364.2	5592.3	5638.8	5869.0	5898.5	5643.0
20°	4506.8	4536.4	4627.2	4711.6	4950.3	5243.9	5501.5	5518.4	5856.3	5936.5	5569.1
22.5°	4460.3	4443.4	4473.0	4610.3	4806.7	5125.6	5453.0	5516.3	5854.2	5923.9	5429.7
25°	4411.8	4466.6	4464.5	4601.9	4745.4	5030.5	5493.1	5562.7	5966.1	5989.3	5448.7
27.5°	4521.6	4515.2	4574.4	4585.0	4762.3	5055.9	5577.5	5630.3	6152.0	6133.0	5463.5
30°	4631.4	4599.7	4635.6	4760.2	4842.6	5201.6	5809.9	5805.6	6392.7	6380.1	5510.0
32.5°	4766.5	4751.8	4775.0	4884.9	5024.2	5395.9	6006.3	6130.9	6637.7	6718.0	5670.4
35°	4791.9	4853.2	4908.1	5055.9	5254.4	5710.6	6375.9	6479.3	6920.7	7172.0	5976.7
37.5°	4952.4	4975.6	5104.4	5366.3	5548.0	6130.9	6610.3	6675.7	7178.4	7463.5	6299.8
40°	5123.5	5151.0	5345.2	5619.7	5869.0	6405.4	6829.9	6851.0	7260.7	7687.3	6511.0
42.5°	5355.8	5381.1	5573.3	5917.5	6251.2	6639.8	7024.2	7047.4	7254.4	7945.0	6846.7
45°	5596.5	5657.8	5883.7	6274.4	6574.3	6914.4	7068.5	7163.6	7313.5	8175.2	7119.2
47.5°	5934.4	5991.5	6177.3	6559.5	6910.2	7155.1	7273.4	7366.3	7455.0	8375.8	7294.5
50°	6293.5	6304.1	6530.0	6876.4	7134.0	7427.5	7655.6	7687.3	7640.8	8608.1	7592.3
52.5°	6557.4	6591.3	6766.5	7104.4	7488.8	7850.0	8162.5	8196.3	8105.5	8694.7	7693.6
55°	6120.3	6101.3	6386.4	6836.2	7727.4	8479.3	8933.4	8958.7	8443.4	8962.9	8025.2
57.5°	4730.6	4821.5	5064.3	5607.1	6865.8	8758.1	9528.9	9438.1	8848.8	9098.1	8236.4
60°	3438.2	3417.1	3579.6	3942.9	5174.2	7548.0	9009.4	9102.3	8517.3	8200.5	6791.9
62.5°	2800.4	2770.8	2783.5	2796.2	3338.9	5009.4	6669.4	6667.3	6559.5	5894.3	4580.7
65°	2238.7	2308.3	2314.7	2409.7	2479.4	2992.5	3864.8	4071.8	3545.9	2908.1	2109.8
67.5°	1687.4	1662.1	1746.5	2084.4	2215.4	2160.4	2109.8	2133.0	1516.3	1094.0	1030.6
70°	994.7	984.1	1085.5	1453.0	1824.7	1717.0	1590.2	1592.3	1041.2	764.5	851.1
72.5°	544.9	542.8	563.9	737.1	1037.0	1077.1	954.6	984.1	620.9	618.8	665.2
75°	304.1	297.8	291.4	325.2	373.8	394.9	403.3	407.6	426.6	477.3	496.3
77.5°	111.9	107.7	107.7	124.6	158.4	198.6	251.3	255.6	302.0	346.3	365.3
80°	38.0	42.2	57.0	78.1	105.6	141.5	171.1	175.3	213.3	242.9	249.2
82.5°	23.2	25.3	38.0	54.9	76.0	99.2	126.7	128.8	158.4	177.4	185.9
85°	10.6	12.7	21.1	33.8	48.6	65.4	67.6	67.6	65.4	67.6	63.3
87.5°	0.0	0.0	4.2	4.2	4.2	6.3	8.4	6.3	10.6	12.7	12.7
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°	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4	6386.4
2.5°	6329.4	6306.2	6234.3	6171.0	6152.0	6067.5	5942.9	5957.6	5866.9	5909.1	5864.7
5°	6242.7	6164.6	5980.9	5902.7	5697.9	5605.0	5541.6	5383.2	5309.3	5294.5	5231.2
7.5°	6021.1	5972.4	5742.3	5531.1	5313.5	5127.7	4889.1	4726.4	4610.3	4578.6	4485.6
10°	5845.7	5738.1	5419.2	5098.1	4787.6	4464.5	4154.1	3911.2	3793.0	3655.7	3609.2
12.5°	5672.5	5510.0	5079.1	4667.3	4266.1	3858.4	3482.5	3186.9	2929.2	2868.0	2846.9
15°	5564.9	5281.9	4775.0	4278.8	3708.5	3176.3	2800.4	2606.1	2447.7	2382.2	2428.7
17.5°	5423.4	5093.9	4483.5	3822.5	3195.3	2705.3	2390.7	2270.3	2213.3	2219.7	2200.6
20°	5246.0	4916.5	4101.3	3408.6	2737.0	2346.3	2166.8	2122.4	2130.9	2145.7	2139.3
22.5°	5119.3	4701.1	3824.6	2986.2	2365.3	2147.8	2073.9	2042.2	2069.7	2082.3	2071.8
25°	5022.1	4517.3	3488.9	2612.4	2149.9	2035.9	2002.1	2000.0	2042.2	2059.1	2048.5
27.5°	4933.4	4346.3	3155.2	2327.3	2006.3	1949.3	1938.8	1964.1	1991.5	2008.4	2023.2
30°	4880.6	4215.3	2842.6	2088.7	1934.5	1907.1	1888.0	1911.3	1926.1	1943.0	1934.5
32.5°	4931.3	4122.4	2540.6	1953.5	1875.3	1847.9	1873.2	1858.4	1883.8	1898.6	1875.3
35°	5089.6	4040.1	2325.2	1881.7	1807.8	1818.3	1822.5	1816.2	1826.8	1814.1	1841.5
37.5°	5246.0	4010.5	2126.7	1820.4	1776.1	1776.1	1771.9	1759.2	1780.3	1776.1	1788.8
40°	5444.5	4029.5	1957.8	1755.0	1746.5	1742.3	1725.4	1723.3	1714.9	1717.0	1721.2
42.5°	5617.6	4071.8	1860.5	1712.8	1719.1	1727.5	1695.9	1670.5	1681.1	1660.0	1660.0
45°	5801.4	4109.8	1774.0	1683.2	1676.9	1674.8	1649.4	1634.7	1626.2	1628.3	1647.3
47.5°	6090.7	4164.6	1708.5	1643.1	1647.3	1615.6	1609.3	1590.2	1598.7	1611.4	1613.5
50°	6295.6	4280.9	1657.9	1596.6	1611.4	1590.2	1552.2	1543.8	1543.8	1564.9	1560.7
52.5°	6439.2	4443.4	1609.3	1545.9	1552.2	1535.3	1522.7	1503.7	1491.0	1520.5	1535.3
55°	6878.5	4713.8	1596.6	1503.7	1501.5	1484.7	1461.4	1442.4	1436.1	1440.3	1469.9
57.5°	6836.2	4629.3	1556.4	1429.8	1425.5	1402.3	1379.1	1372.8	1370.7	1374.9	1383.3
60°	5550.1	3419.2	1389.7	1345.3	1339.0	1334.8	1311.5	1286.1	1273.4	1286.1	1275.6
62.5°	3672.6	2289.3	1224.9	1243.9	1248.1	1237.6	1199.6	1174.2	1178.4	1193.2	1170.0
65°	1803.5	1345.3	1110.9	1161.5	1165.8	1136.2	1100.3	1070.8	1056.0	1068.7	1058.1
67.5°	1030.6	1028.5	1017.9	1070.8	1068.7	1039.1	982.0	956.7	931.3	935.6	929.2
70°	874.3	891.2	912.3	944.0	941.9	908.1	840.5	821.5	785.7	781.4	770.9
72.5°	688.4	718.0	764.5	787.8	768.8	726.5	682.1	650.4	618.8	599.8	606.1
75°	511.1	553.3	578.7	593.4	563.9	540.7	504.8	466.8	428.7	411.8	405.4
77.5°	371.7	384.3	407.6	418.1	399.1	375.9	354.8	316.8	280.9	257.7	251.3
80°	259.8	268.2	285.1	285.1	285.1	274.6	247.1	209.1	185.9	164.8	160.5
82.5°	181.7	190.1	207.0	198.6	196.4	183.8	166.9	137.3	111.9	97.1	92.9
85°	63.3	69.7	84.4	101.3	107.7	105.6	95.0	76.0	59.1	48.6	44.3
87.5°	14.8	14.8	16.9	14.8	14.8	16.9	14.8	14.8	14.8	10.6	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)