

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: P528804

Luminaire Tested: **GALN-SA3D-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15554 lumens
Efficiency: N/A
Efficacy: 84.5 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



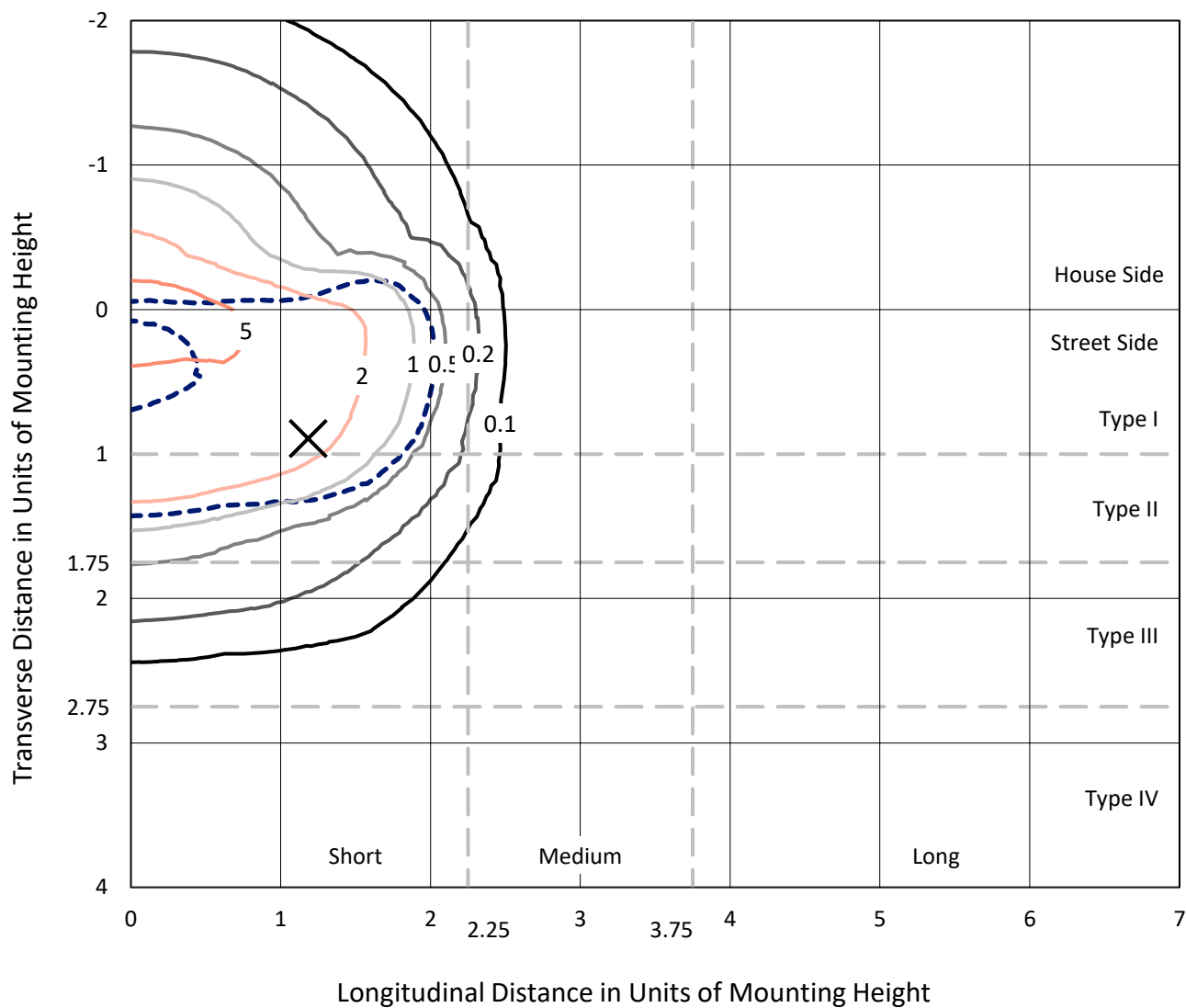
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

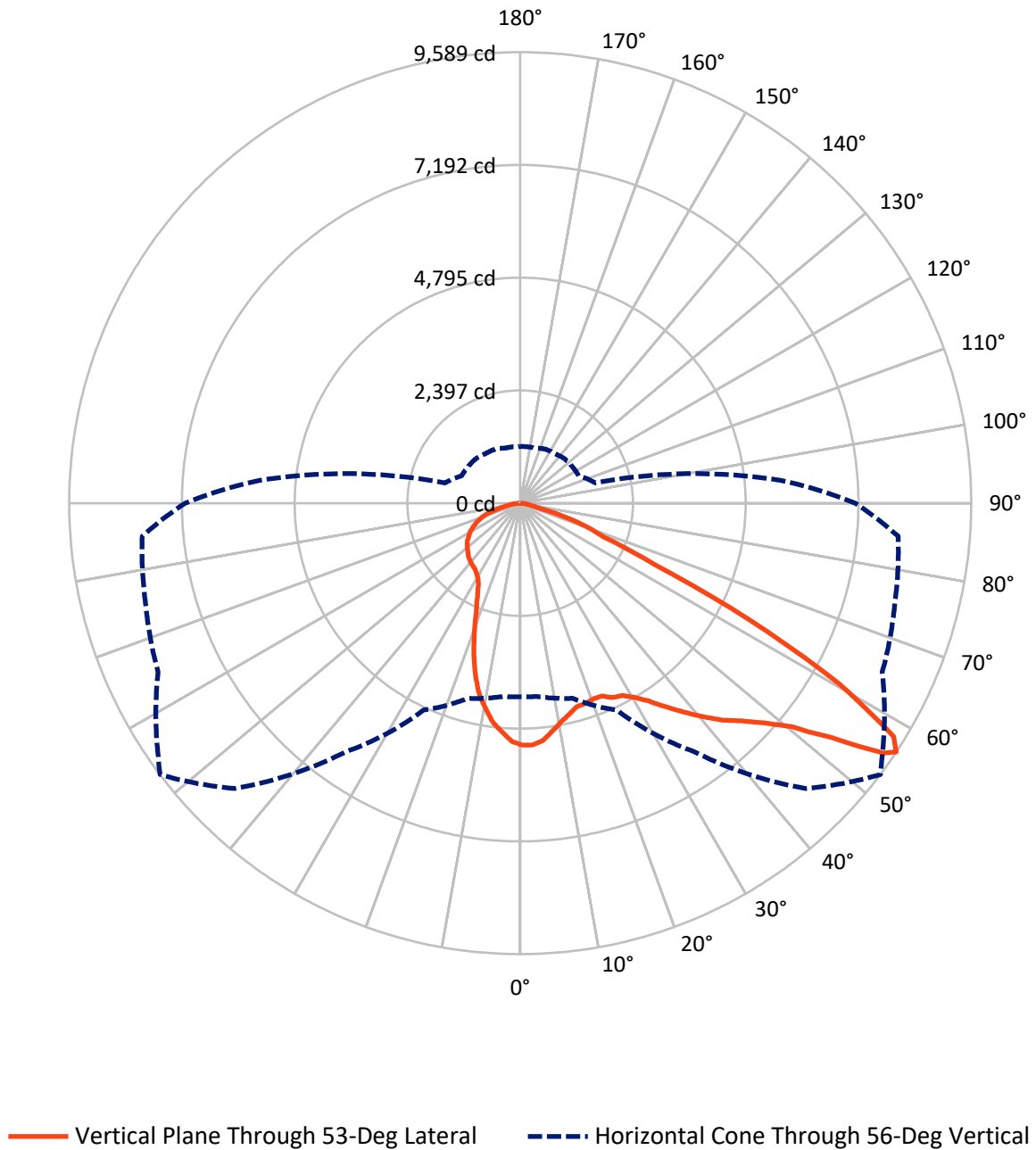
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4539.0	0.0	4539.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	11015.0	0.0	11015.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	15554.0	0.0	15554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.6	2.9
10°-20°	1137.8	7.3
20°-30°	1677.8	10.8
30°-40°	2397.2	15.4
40°-50°	3299.4	21.2
50°-60°	3899.0	25.1
60°-70°	2077.9	13.4
70°-80°	527.2	3.4
80°-90°	82.2	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°	15554.0	100.0
0°-180°	15554.0	100.0

Coefficient of Utilization



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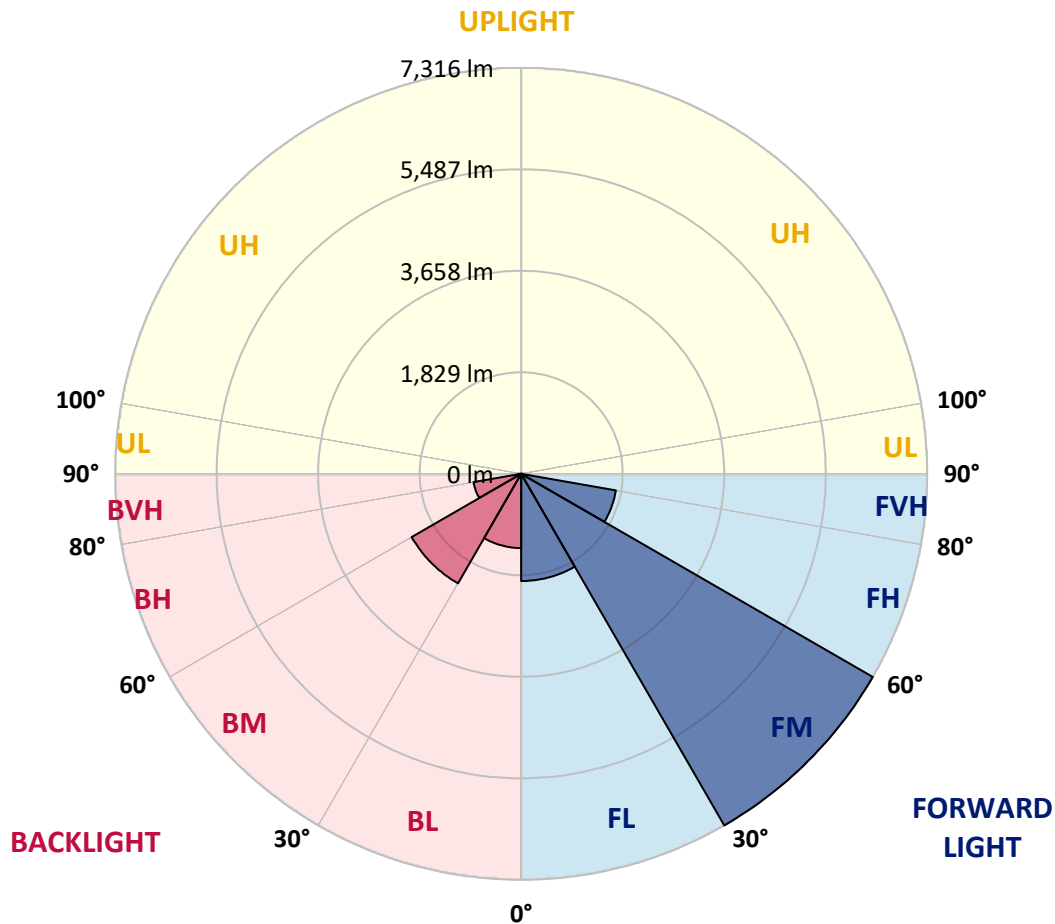
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1932.4	12.4			
FM	(30°-60°)	7316.3	47.0			
FH	(60°-80°)	1733.3	11.1			G1/1800
FVH	(80°-90°)	33.0	0.2			G1/100
BL	(0°-30°)	1338.7	8.6	B3/2500		
BM	(30°-60°)	2279.3	14.7	B2/2500		
BH	(60°-80°)	871.8	5.6	B2/1000		G2/1000
BVH	(80°-90°)	49.2	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°	53°	55°	65°	75°	85°
0°	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9
2.5°	5082.0	5038.1	5064.1	5054.1	5135.9	5159.8	5147.9	5157.8	5203.7	5181.8	5135.9
5°	4748.8	4810.7	4822.6	4852.6	4900.5	4994.2	5068.1	5088.0	5110.0	5211.7	5201.7
7.5°	4445.5	4487.4	4465.5	4553.3	4657.0	4808.7	4898.5	4914.4	5115.9	5171.8	5213.7
10°	4254.0	4212.1	4311.8	4335.8	4453.5	4627.1	4734.8	4800.7	4984.3	5205.7	5231.7
12.5°	4076.4	4062.4	4122.3	4190.1	4321.8	4501.4	4611.1	4637.1	4920.4	5153.9	5275.6
15°	3944.7	3928.7	3988.6	4038.5	4192.1	4351.7	4491.4	4565.2	4850.6	5123.9	5237.7
17.5°	3841.0	3839.0	3872.9	3962.7	4120.3	4254.0	4479.4	4483.4	4814.7	5169.8	5269.6
20°	3835.0	3833.0	3839.0	3938.7	4082.4	4246.0	4441.5	4477.5	4814.7	5137.9	5271.6
22.5°	3884.8	3852.9	3888.8	3952.7	4056.4	4260.0	4455.5	4535.3	4930.4	5295.5	5361.4
25°	3964.7	3972.6	3992.6	4014.5	4074.4	4291.9	4579.2	4645.1	5066.1	5431.2	5485.1
27.5°	4110.3	4106.3	4114.3	4126.3	4178.2	4321.8	4629.1	4798.7	5349.4	5672.6	5618.8
30°	4323.8	4309.8	4341.8	4383.7	4335.8	4417.6	4794.7	4922.4	5612.8	5916.1	5768.4
32.5°	4517.4	4569.2	4629.1	4647.1	4589.2	4605.2	5014.2	5143.9	5832.3	6215.4	5952.0
35°	4758.8	4800.7	4880.5	4936.4	4926.4	4878.5	5313.5	5485.1	6149.5	6434.8	6145.5
37.5°	4994.2	5044.1	5175.8	5341.4	5249.6	5227.7	5632.7	5774.4	6247.3	6552.6	6287.2
40°	5373.3	5371.3	5598.8	5684.6	5766.4	5728.5	5963.9	6011.8	6299.2	6526.6	6291.2
42.5°	5818.3	5790.4	6021.8	6155.5	6261.2	6265.2	6309.1	6293.2	6323.1	6394.9	6249.3
45°	6241.3	6301.2	6534.6	6774.0	6879.8	6891.8	6600.4	6570.5	6365.0	6357.0	6169.5
47.5°	6758.1	6772.0	6963.6	7278.9	7524.3	7440.5	6977.6	6911.7	6548.6	6610.4	6303.1
50°	6788.0	6891.8	7063.4	7434.5	8188.7	8166.8	7466.4	7342.7	6843.9	6969.6	6676.3
52.5°	6161.5	6137.5	6341.1	6947.6	8138.8	8889.1	8276.5	7981.2	7478.4	7382.6	7280.8
55°	4694.9	4750.8	4930.4	5542.9	7067.3	8899.0	9379.9	9138.5	8156.8	7993.2	7875.4
56°	4118.3	4126.3	4295.9	4854.6	6448.8	8581.8	9589.4	9393.9	8494.0	8244.6	8065.0
57.5°	3414.0	3368.1	3455.9	3761.1	5443.2	7911.4	9359.9	9551.5	8889.1	8515.9	8266.5
60°	2687.7	2677.7	2641.8	2697.6	3439.9	5960.0	7791.6	8222.6	8849.2	8260.5	7917.3
62.5°	2194.8	2144.9	2216.8	2296.6	2390.4	3697.3	5475.1	5728.5	7025.4	6594.5	5948.0
65°	1702.0	1678.0	1767.8	2027.2	2083.1	2348.5	3118.7	3314.2	4148.2	4074.4	3587.5
67.5°	1171.2	1175.2	1253.0	1648.1	1931.4	1907.5	1909.5	2011.3	2164.9	1608.2	1400.7
70°	742.3	740.3	782.2	1061.5	1554.3	1570.3	1490.5	1460.6	1384.7	838.0	887.9
72.5°	476.9	462.9	484.9	586.6	804.1	929.8	957.7	975.7	802.1	658.4	714.3
75°	269.4	255.4	247.4	273.4	317.3	367.1	403.1	415.0	464.9	498.8	528.8
77.5°	81.8	73.8	89.8	119.7	157.6	211.5	257.4	265.4	313.3	353.2	383.1
80°	35.9	39.9	55.9	79.8	111.7	149.6	181.6	193.5	225.5	255.4	263.4
82.5°	21.9	23.9	37.9	53.9	77.8	105.8	129.7	133.7	165.6	189.6	195.5
85°	8.0	10.0	20.0	31.9	49.9	67.8	67.8	73.8	67.8	67.8	73.8
87.5°	0.0	0.0	2.0	4.0	4.0	6.0	8.0	8.0	10.0	12.0	14.0
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°	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9	5145.9
2.5°	5159.8	5149.9	5133.9	5076.0	5070.1	5052.1	4952.3	4936.4	4952.3	4904.4	4908.4
5°	5149.9	5179.8	5060.1	5002.2	4894.5	4816.7	4726.9	4681.0	4599.2	4547.3	4605.2
7.5°	5193.8	5181.8	5032.1	4906.4	4744.8	4547.3	4389.7	4299.9	4156.2	4116.3	4146.2
10°	5177.8	5114.0	4938.4	4772.8	4467.5	4293.9	4038.5	3791.1	3655.4	3585.6	3575.6
12.5°	5155.9	5137.9	4844.6	4559.3	4238.0	3872.9	3513.7	3280.3	3058.8	2963.0	2977.0
15°	5181.8	5030.1	4669.0	4307.9	3880.9	3402.0	3014.9	2713.6	2560.0	2498.1	2498.1
17.5°	5169.8	4978.3	4585.2	4026.5	3485.8	2919.1	2494.1	2312.6	2248.7	2248.7	2266.7
20°	5175.8	5012.2	4415.6	3745.2	3018.9	2458.2	2148.9	2083.1	2111.0	2121.0	2131.0
22.5°	5209.7	4900.5	4250.0	3435.9	2585.9	2103.0	1951.4	1953.4	2003.3	2057.2	2047.2
25°	5251.6	4856.6	4048.5	3128.6	2254.7	1929.5	1881.6	1875.6	1913.5	1941.4	1945.4
27.5°	5215.7	4780.7	3842.9	2745.5	1983.3	1813.7	1803.8	1807.7	1819.7	1875.6	1857.6
30°	5333.4	4802.7	3585.6	2424.3	1833.7	1775.8	1763.8	1757.9	1775.8	1791.8	1777.8
32.5°	5479.1	4724.9	3394.0	2115.0	1759.9	1747.9	1723.9	1716.0	1725.9	1710.0	1718.0
35°	5542.9	4710.9	3144.6	1893.5	1702.0	1692.0	1678.0	1676.1	1678.0	1664.1	1652.1
37.5°	5578.9	4776.7	2859.3	1791.8	1666.1	1676.1	1644.1	1640.1	1604.2	1612.2	1618.2
40°	5640.7	4675.0	2627.8	1694.0	1644.1	1624.2	1596.2	1590.3	1566.3	1552.3	1566.3
42.5°	5550.9	4645.1	2400.3	1652.1	1612.2	1590.3	1570.3	1536.4	1528.4	1516.4	1508.4
45°	5479.1	4473.5	2196.8	1600.2	1574.3	1562.3	1524.4	1488.5	1458.6	1470.5	1452.6
47.5°	5533.0	4413.6	1995.3	1556.3	1522.4	1508.4	1470.5	1442.6	1412.7	1398.7	1394.7
50°	5748.5	4525.3	1825.7	1524.4	1478.5	1470.5	1420.7	1388.7	1360.8	1350.8	1354.8
52.5°	6263.2	4830.6	1710.0	1458.6	1436.6	1400.7	1372.8	1332.9	1314.9	1283.0	1302.9
55°	6915.7	5327.4	1680.0	1396.7	1384.7	1352.8	1314.9	1285.0	1251.1	1225.1	1219.1
56°	7125.2	5564.9	1656.1	1372.8	1352.8	1334.9	1285.0	1267.0	1213.1	1207.2	1203.2
57.5°	7294.8	5774.4	1660.1	1326.9	1306.9	1291.0	1261.0	1217.1	1181.2	1159.3	1169.2
60°	6911.7	5405.3	1584.3	1257.0	1253.0	1223.1	1181.2	1161.3	1117.4	1091.4	1085.4
62.5°	5137.9	3669.4	1285.0	1167.2	1165.3	1133.3	1085.4	1063.5	1055.5	1019.6	1019.6
65°	2959.0	2300.6	1111.4	1093.4	1077.5	1045.5	997.6	979.7	959.7	947.8	937.8
67.5°	1263.0	1193.2	1009.6	1007.6	989.7	949.8	901.9	873.9	848.0	824.1	836.0
70°	915.8	929.8	911.9	901.9	879.9	830.0	788.1	754.2	714.3	698.4	710.3
72.5°	726.3	756.2	782.2	784.2	758.2	700.3	654.5	608.6	564.7	542.7	552.7
75°	550.7	570.7	596.6	602.6	564.7	524.8	480.9	433.0	399.1	373.1	377.1
77.5°	397.1	393.1	417.0	413.0	395.1	367.1	327.2	283.3	245.4	221.5	223.5
80°	271.4	277.3	291.3	289.3	267.4	249.4	219.5	183.6	155.6	135.7	131.7
82.5°	189.6	199.5	211.5	201.5	183.6	165.6	143.7	117.7	95.8	79.8	75.8
85°	67.8	77.8	89.8	95.8	101.8	97.8	81.8	65.8	47.9	39.9	37.9
87.5°	14.0	16.0	18.0	18.0	18.0	16.0	14.0	14.0	12.0	6.0	6.0
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)