

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: P956987

Luminaire Tested: **GALN-SB9C-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43406 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 449.8
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



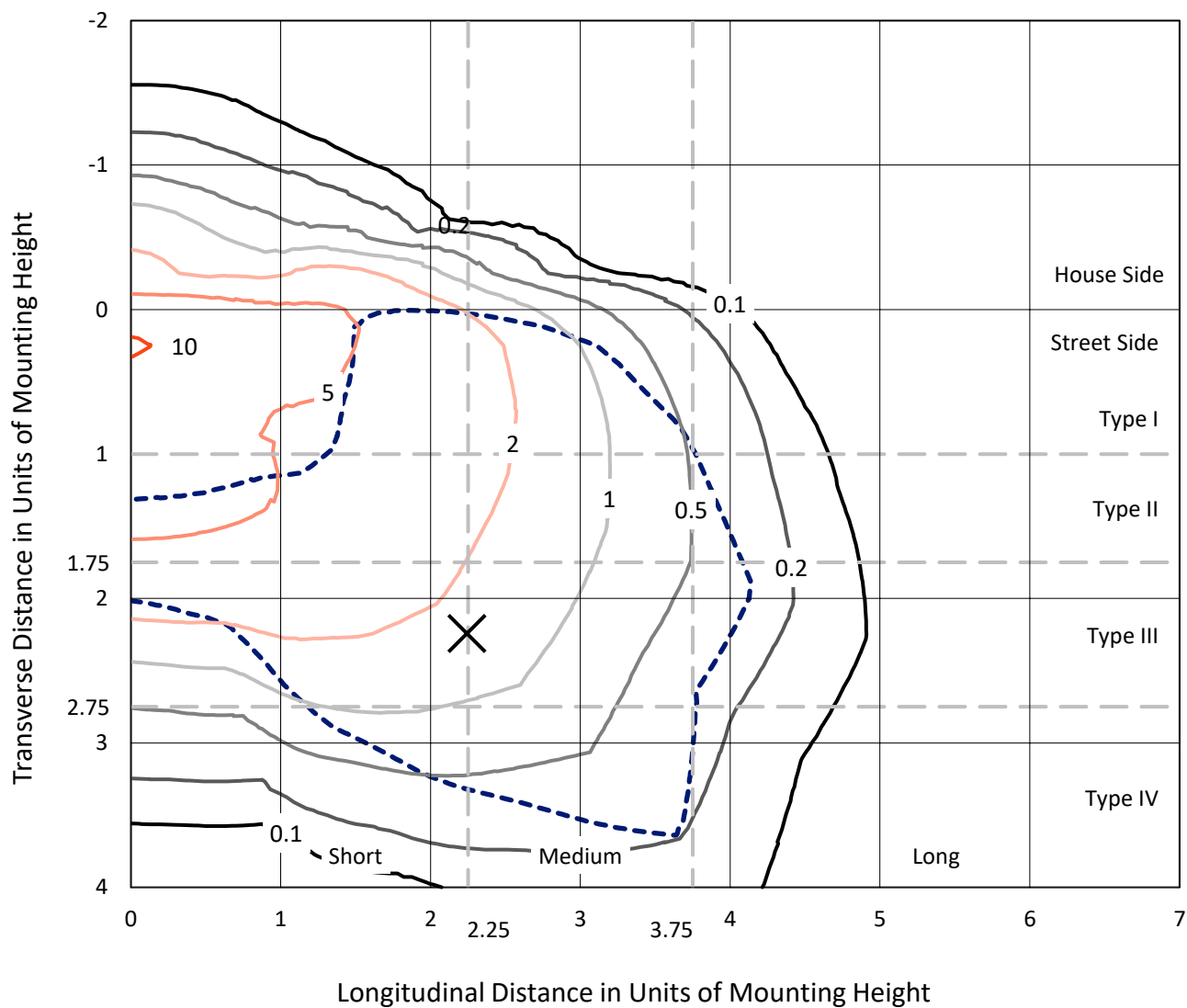
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

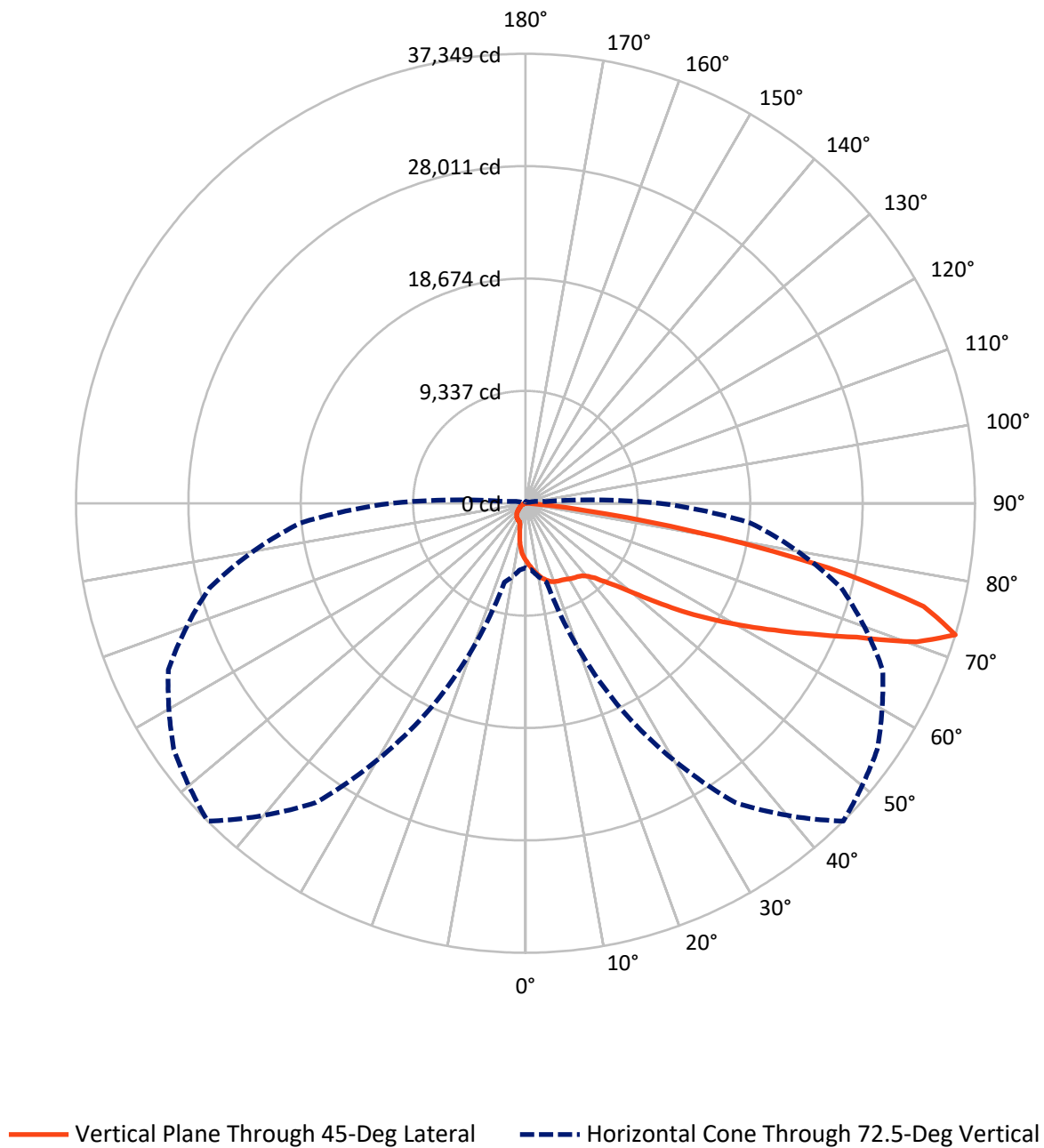


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4560.8	0.0	4560.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	38845.2	0.0	38845.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	43406.0	0.0	43406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.0	1.0
10°-20°	1309.4	3.0
20°-30°	2150.3	5.0
30°-40°	3049.6	7.0
40°-50°	5040.7	11.6
50°-60°	9055.0	20.9
60°-70°	12573.3	29.0
70°-80°	9120.3	21.0
80°-90°	659.4	1.5
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°	43406.0	100.0
0°-180°	43406.0	100.0

Coefficient of Utilization



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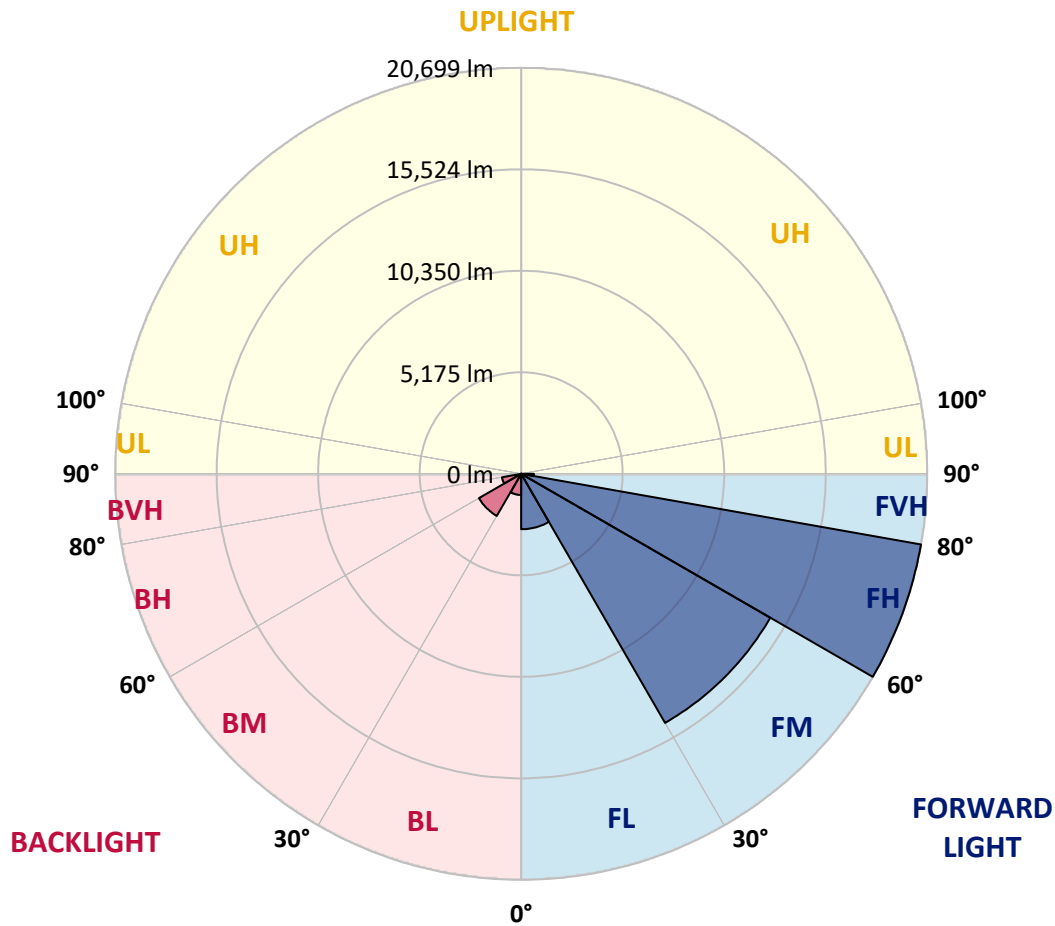
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2827.5	6.5			
FM	(30°-60°)	14664.8	33.8			
FH	(60°-80°)	20699.1	47.7			G5
FVH	(80°-90°)	653.8	1.5			G4/750
BL	(0°-30°)	1080.3	2.5	B3/2500		
BM	(30°-60°)	2480.4	5.7	B2/2500		
BH	(60°-80°)	994.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2
2.5°	5193.7	5202.6	5196.7	5161.1	5101.9	5069.3	5051.5	4992.2	4953.7	4885.6	4814.5
5°	5670.7	5706.3	5685.5	5614.4	5501.8	5421.8	5398.1	5276.7	5167.0	5039.6	4891.5
7.5°	6177.3	6195.1	6156.6	6064.8	5913.7	5777.4	5756.6	5587.8	5413.0	5217.4	5015.9
10°	6615.8	6636.6	6577.3	6444.0	6272.1	6103.3	6073.6	5887.0	5679.6	5439.6	5181.9
12.5°	6983.2	7003.9	6926.9	6766.9	6577.3	6402.5	6372.9	6177.3	5949.2	5682.6	5362.6
15°	7261.7	7300.2	7196.5	7024.7	6820.3	6645.5	6630.6	6438.1	6215.9	5919.6	5578.9
17.5°	7424.7	7463.2	7365.4	7158.0	6983.2	6835.1	6817.3	6657.3	6449.9	6165.5	5789.2
20°	7451.3	7486.9	7383.2	7202.5	7057.3	6938.8	6929.9	6814.3	6663.2	6390.7	6017.4
22.5°	7371.3	7415.8	7321.0	7175.8	7075.1	7012.8	7001.0	6935.8	6849.9	6618.8	6230.7
25°	7288.4	7323.9	7252.8	7125.4	7072.1	7066.2	7075.1	7063.2	7045.4	6849.9	6479.5
27.5°	7282.4	7321.0	7241.0	7119.5	7089.9	7152.1	7161.0	7217.3	7232.1	7060.2	6719.5
30°	7332.8	7359.5	7282.4	7155.1	7140.2	7282.4	7285.4	7386.1	7409.8	7238.0	6956.5
32.5°	7442.4	7472.1	7395.0	7208.4	7187.6	7386.1	7395.0	7528.4	7566.9	7427.6	7205.4
35°	7700.2	7735.7	7646.9	7356.5	7282.4	7483.9	7510.6	7667.6	7744.6	7629.1	7463.2
37.5°	8343.1	8239.4	8117.9	7655.8	7498.7	7638.0	7682.4	7866.1	8002.4	7869.1	7771.3
40°	9940.0	9614.1	9234.9	8165.3	7878.0	7966.8	8002.4	8186.1	8372.7	8242.4	8195.0
42.5°	12336.9	11951.7	11341.4	9338.6	8449.8	8494.2	8520.9	8680.9	8944.6	8840.9	8852.7
45°	14473.1	14333.8	13711.6	11341.4	9519.3	9300.1	9332.7	9415.6	9803.8	9765.2	9842.3
47.5°	16114.4	16034.4	15554.5	13640.5	11326.6	10286.7	10378.5	10417.0	10977.0	11113.3	11320.7
50°	17376.6	17346.9	16917.3	15684.8	13687.9	11741.4	11774.0	11691.0	12529.5	12867.2	13261.3
52.5°	18567.6	18668.3	18351.3	17583.9	16209.2	13646.4	13640.5	13249.4	14381.2	14890.8	15563.3
55°	19643.1	19678.6	19711.2	19521.6	18745.3	15815.2	15758.9	15118.9	16529.2	17056.6	17785.4
57.5°	20653.4	20668.2	20958.5	21346.6	21385.2	18143.9	18040.2	17272.9	18875.7	19252.0	19699.3
60°	21331.8	21400.0	22013.3	23091.7	23562.8	20546.7	20490.4	19708.2	21263.7	21438.5	21355.5
62.5°	20354.1	20768.9	22315.5	24454.6	25618.9	23210.2	23183.5	22448.8	23776.1	23633.9	22922.8
65°	16475.9	17178.0	19897.9	25376.0	27636.6	26184.8	26223.3	25441.2	26356.7	25894.5	24196.8
67.5°	11525.1	12265.8	15483.4	25450.1	29891.2	29677.9	29900.1	28673.5	29097.2	28060.2	24499.0
70°	7969.8	8352.0	10446.7	23856.1	31648.1	34489.4	34483.5	32643.6	31822.9	29046.8	22958.4
72.5°	5359.6	5558.1	6784.7	18926.1	30356.4	37348.5	37176.6	35677.5	32741.4	27165.5	18757.2
75°	2260.6	2405.8	3140.5	10636.3	24016.1	34169.4	33704.3	31529.6	29091.3	21391.1	11702.9
77.5°	717.0	779.2	1238.4	3807.1	13228.7	25684.1	25192.3	19690.5	19497.9	10731.1	4278.2
80°	340.7	397.0	696.2	1528.8	5205.6	13969.4	13901.2	8932.7	8387.6	2897.6	859.2
82.5°	148.1	174.8	385.2	817.7	2328.7	4983.4	5084.1	3039.8	2515.4	1099.2	263.7
85°	47.4	62.2	177.8	376.3	983.6	1238.4	1223.6	722.9	1013.3	598.5	91.8
87.5°	0.0	0.0	59.3	85.9	100.7	71.1	80.0	62.2	281.5	165.9	32.6
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°	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2
2.5°	4778.9	4731.5	4648.6	4571.5	4503.4	4435.2	4393.8	4334.5	4328.6	4328.6	4343.4
5°	4811.5	4734.5	4586.3	4429.3	4248.6	4076.7	3904.9	3739.0	3685.7	3647.1	3664.9
7.5°	4906.3	4784.8	4550.8	4251.6	3907.9	3531.6	3267.9	2983.5	2873.9	2814.6	2823.5
10°	5042.6	4876.7	4521.2	3996.8	3439.8	2927.2	2550.9	2242.8	2124.3	2073.9	2073.9
12.5°	5193.7	4989.3	4467.8	3679.7	2927.2	2313.9	1946.5	1804.3	1786.5	1786.5	1786.5
15°	5374.4	5125.6	4376.0	3306.4	2390.9	1831.0	1700.6	1706.5	1724.3	1736.2	1736.2
17.5°	5561.1	5270.7	4230.8	2888.7	1916.9	1647.3	1650.3	1659.1	1674.0	1685.8	1685.8
20°	5762.6	5415.9	4038.2	2444.3	1644.3	1594.0	1602.8	1611.7	1623.6	1629.5	1632.5
22.5°	5978.8	5552.2	3810.1	2008.7	1552.5	1549.5	1552.5	1561.4	1576.2	1576.2	1582.1
25°	6209.9	5703.3	3549.4	1691.7	1505.1	1505.1	1511.0	1516.9	1528.8	1528.8	1531.7
27.5°	6447.0	5842.6	3273.8	1525.8	1463.6	1460.6	1460.6	1469.5	1475.5	1478.4	1481.4
30°	6707.7	6005.5	2998.3	1490.3	1431.0	1416.2	1407.3	1413.2	1419.2	1422.1	1428.0
32.5°	6974.3	6162.5	2752.4	1505.1	1398.4	1371.8	1342.1	1336.2	1336.2	1348.1	1356.9
35°	7270.6	6334.4	2562.8	1555.4	1380.6	1306.6	1259.2	1232.5	1235.5	1253.2	1262.1
37.5°	7626.1	6541.8	2423.5	1599.9	1368.8	1232.5	1155.5	1122.9	1102.1	1122.9	1117.0
40°	8091.3	6846.9	2322.8	1635.4	1354.0	1146.6	1042.9	989.6	951.0	962.9	957.0
42.5°	8775.7	7326.9	2284.3	1638.4	1321.4	1045.9	927.3	856.2	799.9	802.9	791.1
45°	9735.6	8085.4	2482.8	1599.9	1250.3	936.2	805.9	711.1	675.5	666.6	654.8
47.5°	11051.1	9190.5	2942.0	1519.9	1146.6	829.6	687.4	607.4	580.7	565.9	557.0
50°	12813.9	10609.6	3451.6	1431.0	1042.9	728.8	589.6	539.2	521.4	506.6	503.7
52.5°	14858.2	12049.5	3869.4	1342.1	939.2	640.0	527.4	497.7	482.9	471.1	468.1
55°	16733.6	13042.0	3845.7	1247.3	838.5	568.8	482.9	465.2	447.4	435.5	429.6
57.5°	17901.0	13181.3	3170.1	1143.6	722.9	512.6	441.5	429.6	408.9	394.0	391.1
60°	18437.2	12387.3	2222.1	1007.3	607.4	459.2	397.0	391.1	364.4	343.7	337.8
62.5°	18535.0	10911.8	1481.4	838.5	506.6	408.9	352.6	343.7	308.1	272.6	254.8
65°	18138.0	8802.3	1025.1	654.8	432.6	355.5	302.2	284.4	245.9	210.4	198.5
67.5°	16881.8	6180.3	714.0	471.1	367.4	281.5	240.0	234.1	204.4	174.8	165.9
70°	14579.7	3522.7	477.0	352.6	290.3	192.6	189.6	195.5	165.9	142.2	130.4
72.5°	11178.5	1611.7	296.3	257.8	198.5	130.4	151.1	154.1	127.4	106.7	94.8
75°	6580.3	690.3	186.7	165.9	100.7	85.9	109.6	112.6	85.9	68.1	59.3
77.5°	2239.8	260.7	118.5	97.8	50.4	47.4	71.1	71.1	47.4	26.7	20.7
80°	509.6	97.8	59.3	38.5	23.7	20.7	23.7	20.7	11.9	3.0	0.0
82.5°	145.2	38.5	23.7	14.8	8.9	8.9	3.0	0.0	0.0	0.0	0.0
85°	41.5	17.8	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)