

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: P944164

Luminaire Tested: **GALN-SB9A-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27674 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 255.5
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

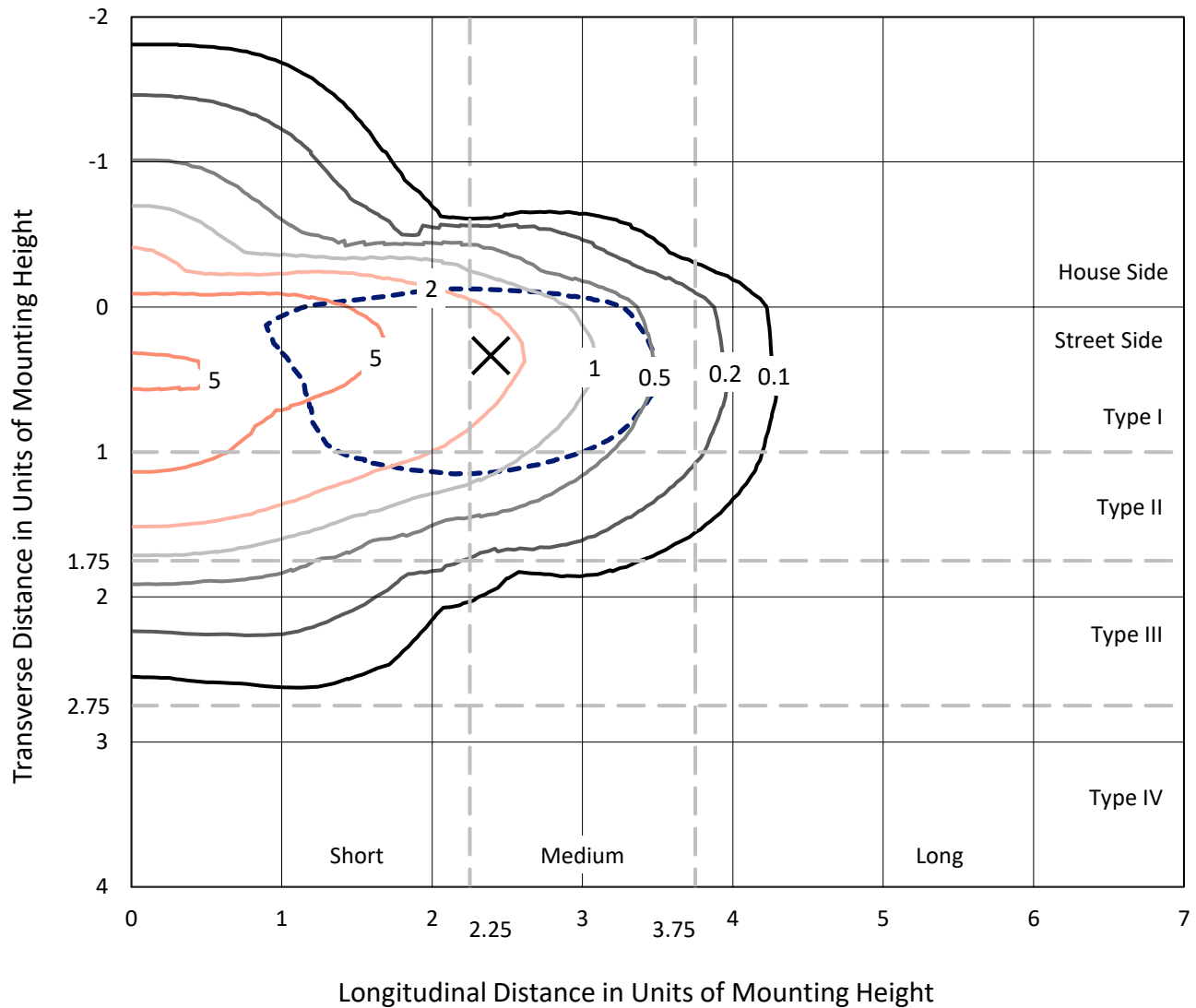


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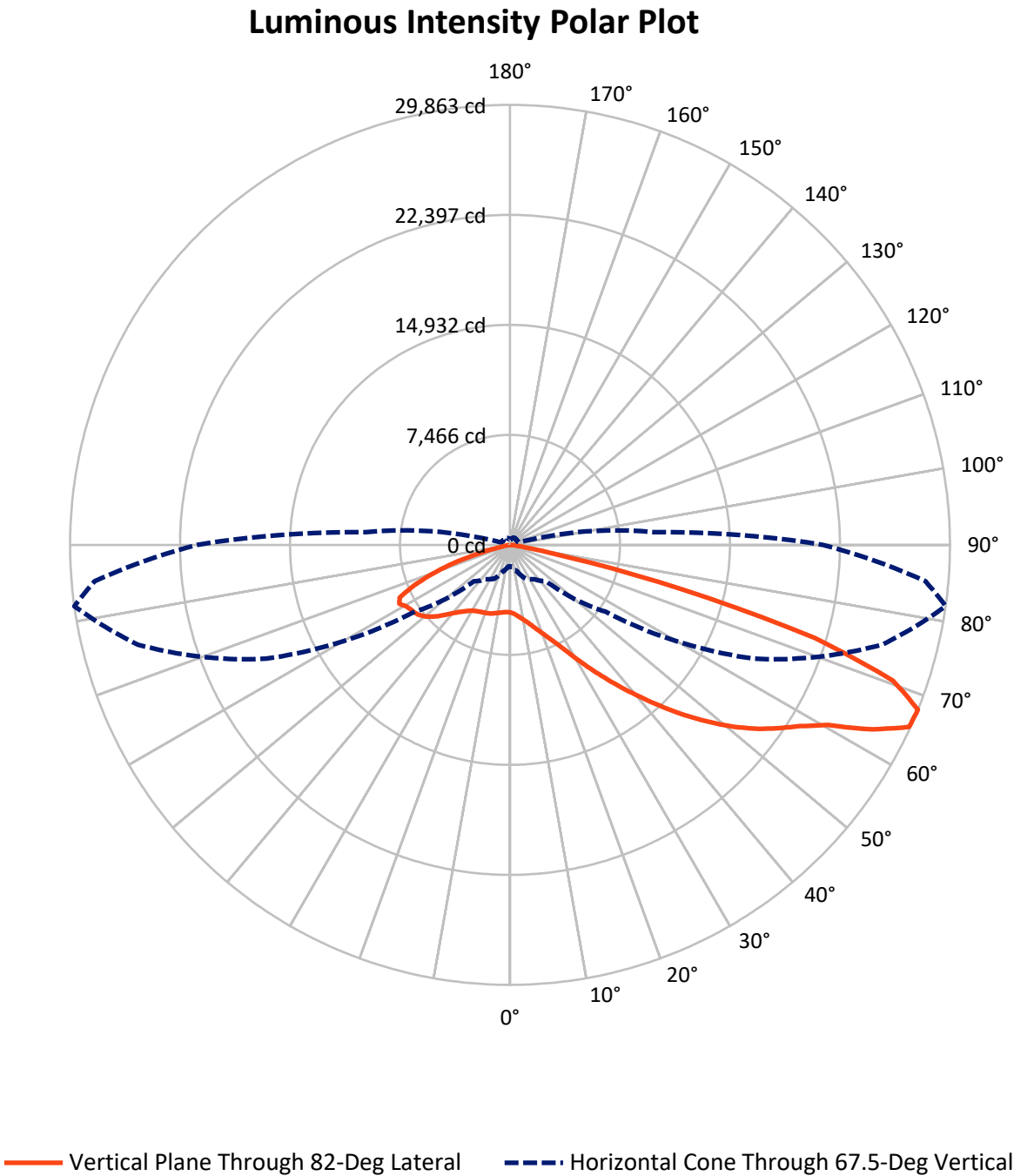
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5012.9	0.0	5012.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22661.1	0.0	22661.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	27674.0	0.0	27674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.5	1.5
10°-20°	1061.4	3.8
20°-30°	1700.1	6.1
30°-40°	3006.2	10.9
40°-50°	5267.2	19.0
50°-60°	7024.9	25.4
60°-70°	6539.9	23.6
70°-80°	2510.0	9.1
80°-90°	155.9	0.6
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°	27674.0	100.0
0°-180°	27674.0	100.0

Coefficient of Utilization



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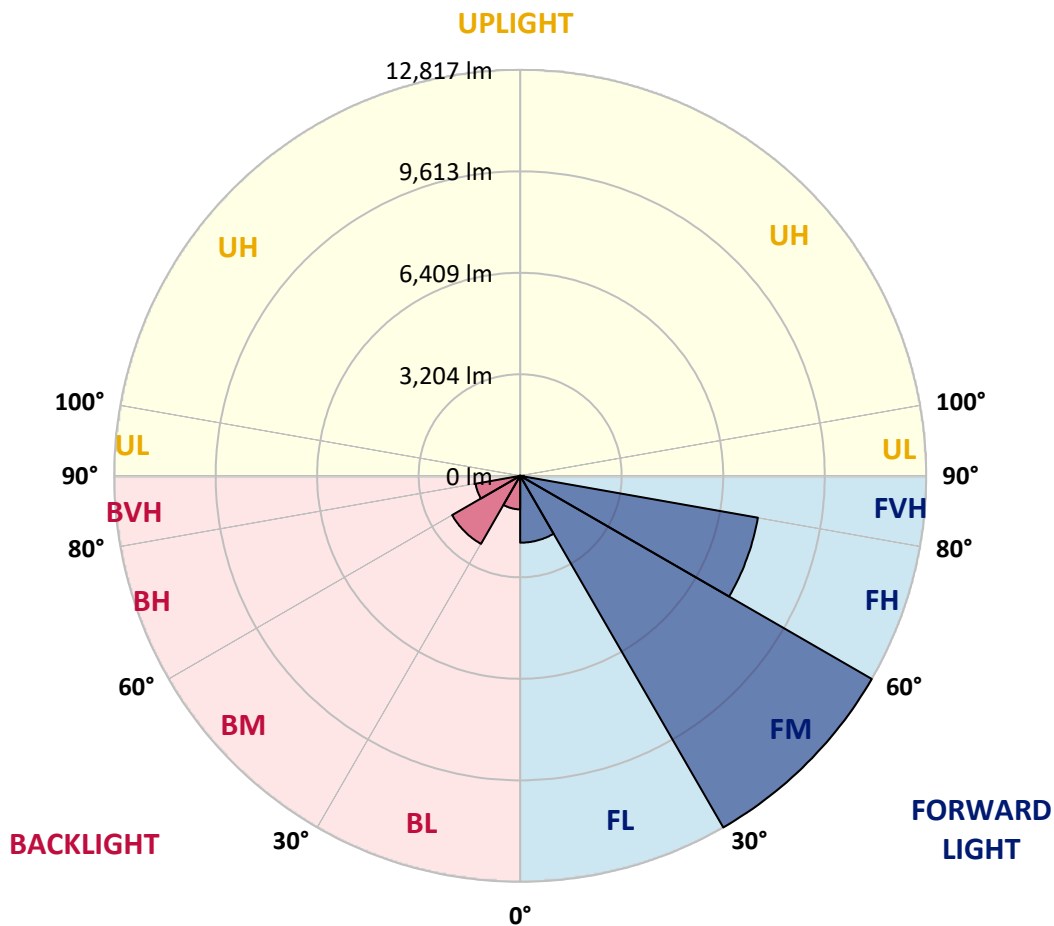
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2111.2	7.6			
FM	(30°-60°)	12817.5	46.3			
FH	(60°-80°)	7619.1	27.5			G4/12000
FVH	(80°-90°)	113.3	0.4			G2/225
BL	(0°-30°)	1058.7	3.8	B3/2500		
BM	(30°-60°)	2480.9	9.0	B2/2500		
BH	(60°-80°)	1430.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	42.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6
2.5°	4845.7	4873.6	4857.6	4849.6	4835.7	4815.8	4799.8	4750.0	4698.2	4664.3	4652.4
5°	4943.3	4971.2	4969.2	4977.2	4987.1	4993.1	4989.1	4933.3	4859.6	4801.8	4768.0
7.5°	4859.6	4891.5	4917.4	4957.2	5027.0	5100.7	5136.6	5124.6	5048.9	4969.2	4927.3
10°	4622.5	4656.4	4718.1	4811.8	4959.2	5118.6	5252.1	5313.9	5266.1	5178.4	5120.6
12.5°	4188.1	4222.0	4343.6	4546.8	4793.9	5070.8	5325.8	5491.2	5503.2	5415.5	5347.8
15°	3700.0	3733.9	3863.4	4118.4	4495.0	4939.3	5365.7	5678.5	5784.1	5708.4	5626.7
17.5°	3397.1	3427.0	3524.7	3729.9	4122.4	4676.3	5351.7	5877.8	6118.8	6059.1	5961.4
20°	3305.5	3331.4	3377.2	3520.7	3847.4	4403.3	5260.1	6065.0	6479.5	6445.6	6336.0
22.5°	3403.1	3427.0	3441.0	3504.7	3710.0	4224.0	5144.5	6256.3	6897.9	6901.9	6768.4
25°	3628.3	3652.2	3636.2	3676.1	3765.7	4168.2	5100.7	6481.5	7423.9	7467.7	7316.3
27.5°	3998.9	4000.9	3963.0	3961.0	3975.0	4251.9	5146.5	6722.6	8087.4	8169.1	7981.8
30°	4742.0	4712.2	4566.7	4409.3	4337.6	4503.0	5274.0	7007.5	8870.4	9015.9	8780.8
32.5°	5887.7	5843.9	5576.9	5200.3	4821.7	4907.4	5503.2	7332.2	9723.2	9986.2	9699.3
35°	7131.0	7119.1	6840.1	6280.2	5618.7	5483.2	5875.8	7758.6	10653.7	11072.1	10731.4
37.5°	8286.6	8280.7	8121.3	7461.8	6656.8	6286.2	6473.5	8316.5	11649.9	12255.6	11853.1
40°	9342.6	9360.6	9201.2	8611.4	7800.5	7316.3	7286.4	9005.9	12757.7	13544.7	13066.5
42.5°	10255.2	10275.1	10113.7	9677.4	8930.2	8456.0	8284.6	9850.7	13839.6	14929.5	14363.6
45°	10874.8	10998.4	10974.5	10625.8	10089.8	9597.7	9484.1	10910.7	15072.9	16397.9	15734.4
47.5°	11050.2	11163.7	11343.1	11390.9	11064.1	10580.0	10715.4	12187.9	16320.2	17868.4	17113.2
50°	10617.8	10723.4	11096.0	11592.1	11819.3	11669.8	11912.9	13556.7	17597.4	19334.8	18466.1
52.5°	9765.0	9872.6	10342.8	11127.9	12054.4	12524.6	13114.4	14905.6	18834.7	20723.6	19747.2
55°	8531.7	8645.3	9249.0	10137.6	11606.1	12877.3	14116.6	16252.5	19968.4	21972.8	20902.9
57.5°	6854.1	6937.7	7565.4	8808.7	10478.3	12526.6	14855.8	17722.9	21036.4	23200.2	22048.5
60°	4467.1	4540.8	5270.1	6656.8	8609.4	11355.0	15003.2	19362.7	22455.0	24796.1	23592.7
62.5°	2970.8	3020.6	3452.9	4471.1	6063.0	9105.5	14140.5	20671.7	24535.1	27573.6	26240.7
65°	2038.3	2088.1	2520.5	3229.8	3917.2	6023.2	11659.9	20498.4	26420.0	29779.3	28203.2
67.5°	1454.5	1496.3	1862.9	2532.4	2835.3	3498.8	7904.1	18282.8	26149.0	29863.0	28308.8
70°	1042.1	1066.0	1368.8	1972.5	2253.5	2102.0	4395.4	13983.1	22895.3	27575.6	26153.0
72.5°	729.2	737.2	950.4	1502.3	1815.1	1534.2	2092.1	9322.7	17316.5	21644.1	20275.3
75°	494.1	504.1	639.6	1101.8	1456.5	1171.6	1107.8	4999.1	10165.5	11980.6	10739.3
77.5°	302.9	306.8	412.4	753.1	1089.9	892.6	713.3	2118.0	3933.1	3861.4	3291.5
80°	171.4	171.4	263.0	468.2	743.2	575.8	500.1	900.6	1245.3	1093.9	964.3
82.5°	95.6	97.6	191.3	290.9	492.1	340.7	275.0	416.4	538.0	476.2	414.4
85°	39.8	43.8	117.6	137.5	235.1	169.4	111.6	175.3	199.2	177.3	129.5
87.5°	4.0	6.0	35.9	25.9	27.9	33.9	15.9	33.9	27.9	27.9	19.9
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°	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6	4584.6
2.5°	4614.5	4584.6	4508.9	4421.3	4305.7	4249.9	4174.2	4122.4	4078.6	4082.5	4042.7
5°	4704.2	4628.5	4459.1	4247.9	3984.9	3797.6	3598.4	3460.9	3349.3	3325.4	3271.6
7.5°	4827.7	4708.2	4411.3	4030.7	3586.4	3249.7	2948.8	2755.6	2618.1	2574.3	2530.4
10°	4987.1	4813.8	4349.5	3757.8	3118.2	2689.8	2367.0	2215.6	2122.0	2090.1	2066.2
12.5°	5172.4	4935.3	4267.8	3425.0	2636.0	2223.6	2018.4	1942.6	1912.8	1902.8	1896.8
15°	5405.5	5086.7	4144.3	3030.5	2227.6	1938.7	1851.0	1841.0	1845.0	1841.0	1839.0
17.5°	5682.5	5252.1	3943.1	2624.1	1952.6	1793.2	1761.3	1769.3	1779.3	1777.3	1773.3
20°	5985.3	5415.5	3686.0	2263.4	1765.3	1689.6	1671.7	1679.6	1687.6	1683.6	1681.6
22.5°	6330.0	5590.8	3401.1	1982.5	1639.8	1594.0	1574.0	1576.0	1576.0	1568.1	1564.1
25°	6742.5	5784.1	3102.3	1783.2	1544.2	1508.3	1484.4	1476.4	1464.5	1440.5	1436.6
27.5°	7234.6	5989.3	2815.3	1643.8	1468.4	1434.6	1406.7	1386.8	1356.9	1317.0	1313.0
30°	7788.5	6238.4	2572.3	1556.1	1408.7	1374.8	1342.9	1313.0	1269.2	1219.4	1215.4
32.5°	8440.1	6505.4	2394.9	1498.3	1354.9	1319.0	1281.2	1245.3	1197.5	1147.7	1149.6
35°	9217.1	6828.2	2291.3	1458.5	1313.0	1265.2	1223.4	1183.5	1147.7	1103.8	1099.8
37.5°	10059.9	7170.9	2259.4	1438.6	1285.1	1211.4	1163.6	1135.7	1131.7	1105.8	1103.8
40°	10982.4	7577.3	2283.4	1426.6	1255.2	1159.6	1107.8	1101.8	1111.8	1066.0	1068.0
42.5°	11958.7	8059.5	2323.2	1412.7	1213.4	1107.8	1058.0	1058.0	1050.0	986.3	986.3
45°	13014.7	8615.4	2363.1	1378.8	1163.6	1056.0	1018.1	1004.2	970.3	908.6	906.6
47.5°	14078.7	9181.2	2392.9	1317.0	1103.8	1012.2	978.3	946.4	896.6	840.8	838.8
50°	15088.9	9689.3	2361.1	1225.4	1036.1	970.3	934.5	890.6	836.8	799.0	793.0
52.5°	15991.5	10129.7	2225.6	1117.8	964.3	926.5	894.6	848.8	805.0	765.1	761.1
55°	16776.5	10486.3	1986.5	1016.2	900.6	888.6	856.8	799.0	739.2	705.3	701.3
57.5°	17529.6	10757.3	1687.6	932.5	842.8	846.8	799.0	747.2	691.4	655.5	651.5
60°	18531.8	11119.9	1384.8	854.8	781.0	793.0	741.2	703.3	633.6	587.8	581.8
62.5°	20133.8	11683.8	1099.8	759.1	709.3	713.3	691.4	645.6	561.9	508.1	504.1
65°	21405.0	11476.6	866.7	655.5	627.6	633.6	633.6	583.8	494.1	432.4	426.4
67.5°	21261.5	9826.8	691.4	553.9	549.9	553.9	567.9	526.0	438.3	388.5	380.6
70°	19585.9	7816.4	553.9	460.3	478.2	468.2	508.1	480.2	394.5	344.7	338.7
72.5°	15981.5	5630.7	422.4	380.6	366.6	382.6	458.3	432.4	328.8	273.0	267.0
75°	9338.6	3004.6	314.8	300.9	265.0	318.8	406.5	368.6	251.0	201.2	195.3
77.5°	3040.5	1048.0	231.1	221.2	197.3	257.0	346.7	310.8	205.2	159.4	153.4
80°	814.9	316.8	157.4	145.4	127.5	191.3	275.0	247.1	147.4	103.6	101.6
82.5°	326.8	133.5	91.7	81.7	69.7	131.5	217.2	199.2	109.6	65.8	65.8
85°	105.6	43.8	33.9	25.9	31.9	81.7	129.5	135.5	77.7	33.9	25.9
87.5°	13.9	6.0	6.0	8.0	6.0	13.9	39.8	37.9	21.9	4.0	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)