

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: P944674

Luminaire Tested: **GALN-SB9D-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944674
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-SB9D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA 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: 62778 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 658
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

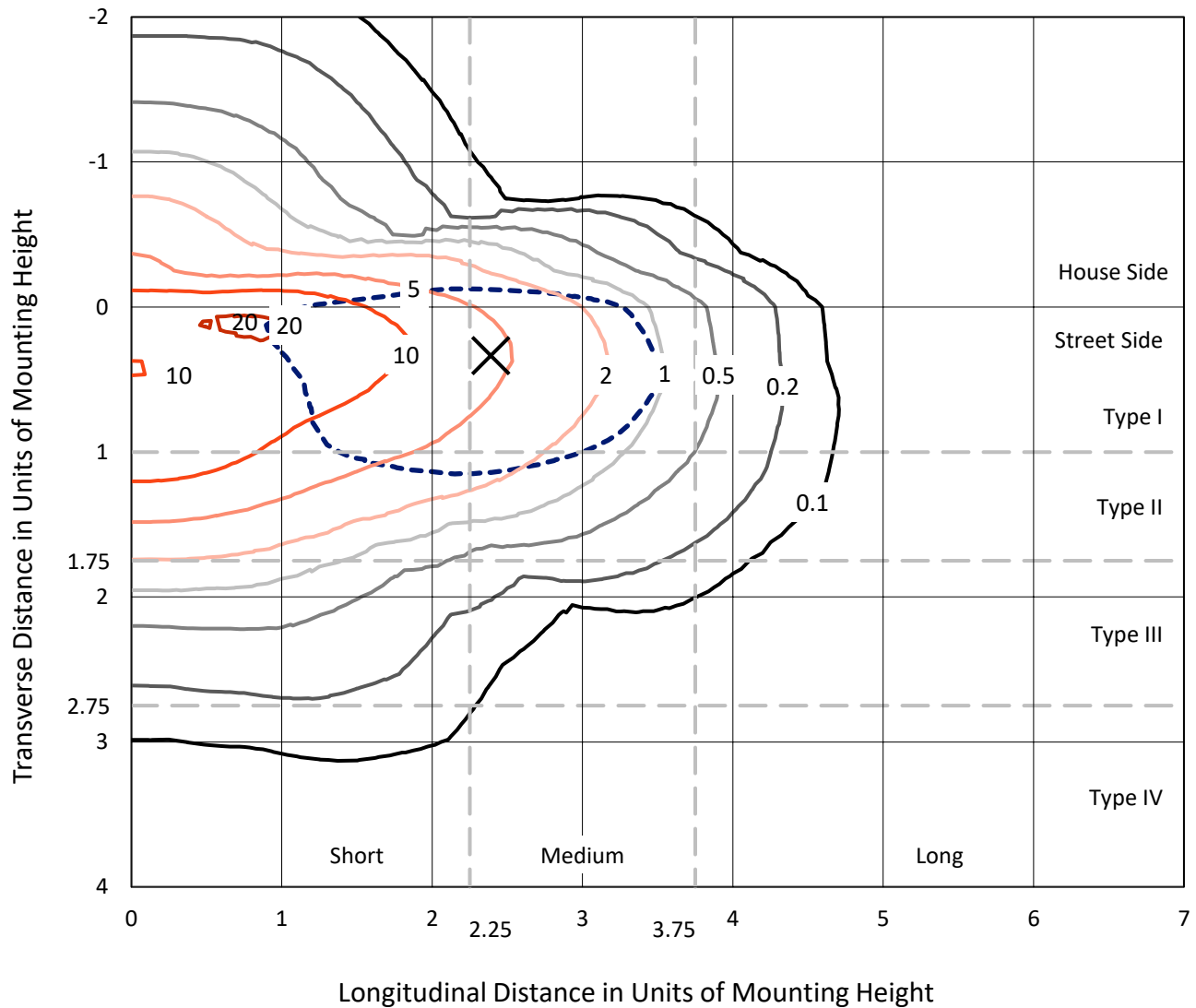


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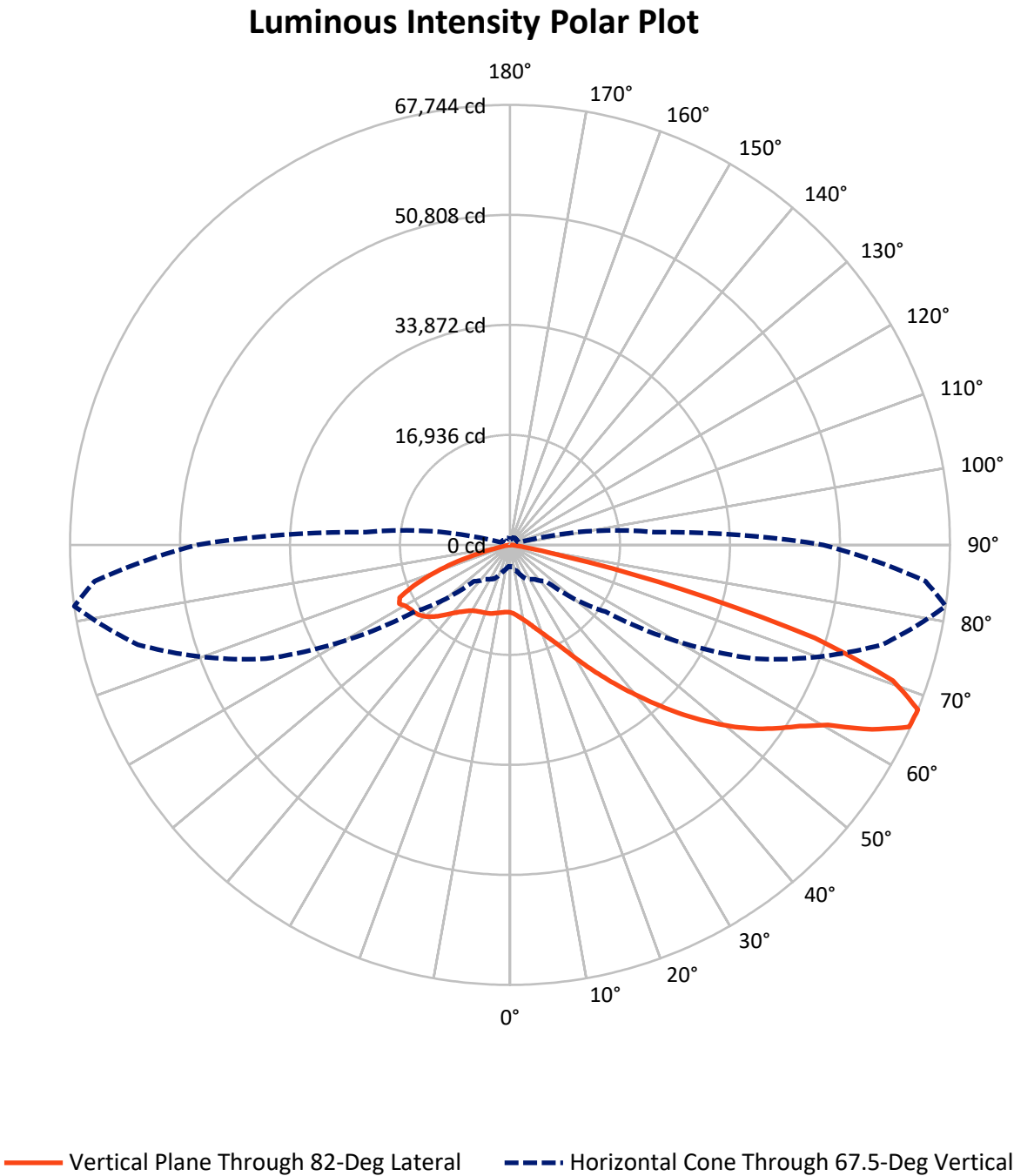
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc
 Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11371.7	0.0	11371.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	51406.3	0.0	51406.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	62778.0	0.0	62778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.6	1.5
10°-20°	2407.8	3.8
20°-30°	3856.5	6.1
30°-40°	6819.5	10.9
40°-50°	11948.5	19.0
50°-60°	15936.0	25.4
60°-70°	14835.6	23.6
70°-80°	5693.9	9.1
80°-90°	353.7	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°	62778.0	100.0
0°-180°	62778.0	100.0

Coefficient of Utilization



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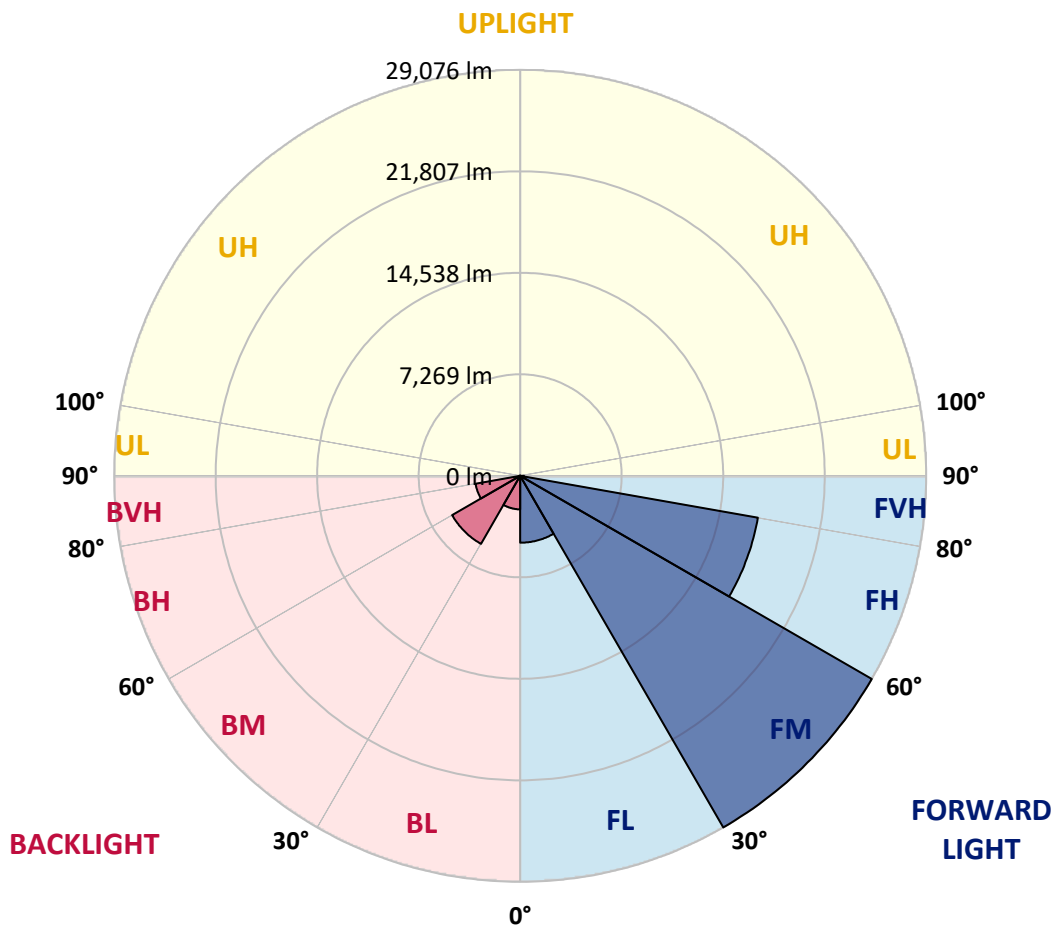
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4789.3	7.6			
FM	(30°-60°)	29076.2	46.3			
FH	(60°-80°)	17283.7	27.5			G5
FVH	(80°-90°)	257.1	0.4			G3/500
BL	(0°-30°)	2401.7	3.8	B3/2500		
BM	(30°-60°)	5627.8	9.0	B4/8500		
BH	(60°-80°)	3245.7	5.2	B4/5000		G4/5000
BVH	(80°-90°)	96.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2
2.5°	10992.3	11055.6	11019.4	11001.3	10969.7	10924.5	10888.3	10775.3	10657.8	10581.0	10553.9
5°	11213.8	11277.0	11272.5	11290.6	11313.2	11326.8	11317.7	11191.2	11023.9	10892.9	10816.0
7.5°	11023.9	11096.2	11155.0	11245.4	11403.6	11570.8	11652.2	11625.1	11453.3	11272.5	11177.6
10°	10486.1	10562.9	10703.0	10915.5	11249.9	11611.5	11914.3	12054.5	11946.0	11747.1	11616.0
12.5°	9500.7	9577.6	9853.3	10314.3	10874.8	11503.0	12081.6	12456.7	12483.8	12285.0	12131.3
15°	8393.4	8470.2	8764.0	9342.5	10196.8	11204.7	12172.0	12881.6	13121.1	12949.4	12764.1
17.5°	7706.4	7774.2	7995.6	8461.2	9351.6	10608.1	12140.3	13333.6	13880.5	13744.9	13523.4
20°	7498.4	7557.2	7661.2	7986.6	8727.8	9988.9	11932.4	13758.4	14698.6	14621.7	14373.1
22.5°	7719.9	7774.2	7805.8	7950.4	8416.0	9582.1	11670.3	14192.3	15647.7	15656.8	15354.0
25°	8230.7	8284.9	8248.7	8339.1	8542.5	9455.5	11570.8	14703.1	16841.0	16940.4	16596.9
27.5°	9071.4	9075.9	8990.0	8985.5	9017.1	9645.4	11674.8	15250.0	18346.1	18531.4	18106.5
30°	10757.3	10689.5	10359.5	10002.4	9839.7	10214.9	11964.1	15896.3	20122.4	20452.4	19919.0
32.5°	13356.2	13256.7	12651.1	11796.8	10938.1	11132.4	12483.8	16633.1	22056.9	22653.5	22002.7
35°	16176.6	16149.4	15516.7	14246.6	12746.0	12438.6	13329.1	17600.3	24167.7	25116.8	24343.9
37.5°	18798.1	18784.5	18422.9	16926.9	15100.8	14260.1	14685.0	18865.9	26427.6	27801.6	26888.6
40°	21193.6	21234.3	20872.7	19534.8	17695.2	16596.9	16529.1	20429.8	28940.6	30726.0	29641.2
42.5°	23263.7	23308.9	22942.8	21952.9	20258.0	19182.3	18793.6	22346.2	31394.9	33867.3	32583.6
45°	24669.4	24949.6	24895.4	24104.4	22888.6	21772.1	21514.5	24750.7	34192.7	37198.4	35693.3
47.5°	25067.1	25324.8	25731.5	25840.0	25098.8	24000.4	24307.8	27648.0	37022.1	40534.1	38821.0
50°	24086.3	24325.9	25171.1	26296.5	26811.8	26472.8	27024.2	30753.1	39919.4	43860.7	41890.0
52.5°	22151.8	22395.9	23462.6	25243.4	27345.1	28411.8	29749.7	33813.0	42726.2	47011.0	44796.3
55°	19354.0	19611.7	20981.2	22997.0	26328.2	29211.8	32023.2	36868.5	45298.0	49845.0	47417.8
57.5°	15548.3	15738.1	17161.9	19982.3	23769.9	28416.3	33700.1	40204.1	47720.6	52629.2	50016.7
60°	10133.5	10300.8	11955.0	15100.8	19530.3	25758.7	34034.5	43924.0	50938.8	56249.6	53519.6
62.5°	6739.1	6852.1	7832.9	10142.6	13753.9	20655.7	32077.4	46893.5	55657.5	62550.3	59526.5
65°	4623.8	4736.8	5717.6	7326.7	8886.0	13663.5	26450.2	46500.3	59933.3	67553.8	63978.6
67.5°	3299.5	3394.4	4226.1	5744.7	6431.8	7936.9	17930.3	41474.2	59318.6	67743.6	64218.1
70°	2363.9	2418.1	3105.1	4474.7	5112.0	4768.4	9970.8	31720.4	51937.7	62554.8	59327.6
72.5°	1654.3	1672.3	2156.0	3408.0	4117.6	3480.3	4745.8	21148.4	39282.1	49099.2	45994.1
75°	1120.9	1143.5	1450.9	2499.5	3304.0	2657.7	2513.0	11340.3	23060.3	27177.9	24362.0
77.5°	687.0	696.1	935.6	1708.5	2472.4	2024.9	1618.1	4804.6	8922.2	8759.5	7466.8
80°	388.7	388.7	596.6	1062.2	1685.9	1306.2	1134.5	2043.0	2824.9	2481.4	2187.6
82.5°	217.0	221.5	433.9	659.9	1116.4	772.9	623.7	944.7	1220.4	1080.2	940.1
85°	90.4	99.4	266.7	311.9	533.3	384.2	253.1	397.7	452.0	402.3	293.8
87.5°	9.0	13.6	81.4	58.8	63.3	76.8	36.2	76.8	63.3	63.3	45.2
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°	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2	10400.2
2.5°	10468.0	10400.2	10228.4	10029.6	9767.4	9640.9	9469.1	9351.6	9252.1	9261.2	9170.8
5°	10671.4	10499.6	10115.4	9636.3	9039.7	8614.8	8162.9	7851.0	7597.9	7543.6	7421.6
7.5°	10951.6	10680.4	10007.0	9143.7	8135.7	7371.9	6689.4	6251.0	5939.1	5839.7	5740.2
10°	11313.2	10920.0	9866.8	8524.4	7073.6	6101.8	5369.6	5026.1	4813.6	4741.3	4687.1
12.5°	11733.5	11195.7	9681.5	7769.6	5979.8	5044.2	4578.6	4406.9	4339.1	4316.5	4302.9
15°	12262.4	11539.2	9401.3	6874.7	5053.2	4397.8	4198.9	4176.3	4185.4	4176.3	4171.8
17.5°	12890.6	11914.3	8944.8	5952.7	4429.5	4067.9	3995.6	4013.6	4036.2	4031.7	4022.7
20°	13577.6	12285.0	8361.7	5134.6	4004.6	3832.8	3792.2	3810.2	3828.3	3819.3	3814.8
22.5°	14359.6	12682.7	7715.4	4497.3	3719.8	3615.9	3570.7	3575.2	3575.2	3557.1	3548.1
25°	15295.2	13121.1	7037.4	4045.3	3502.9	3421.5	3367.3	3349.2	3322.1	3267.9	3258.8
27.5°	16411.6	13586.7	6386.6	3728.9	3331.1	3254.3	3191.0	3145.8	3078.0	2987.6	2978.6
30°	17668.1	14151.7	5835.1	3530.0	3195.5	3118.7	3046.4	2978.6	2879.1	2766.2	2757.1
32.5°	19146.1	14757.3	5432.9	3398.9	3073.5	2992.1	2906.3	2824.9	2716.4	2603.4	2608.0
35°	20908.9	15489.5	5197.8	3308.5	2978.6	2870.1	2775.2	2684.8	2603.4	2504.0	2495.0
37.5°	22820.8	16267.0	5125.5	3263.3	2915.3	2748.1	2639.6	2576.3	2567.3	2508.5	2504.0
40°	24913.4	17189.0	5179.8	3236.2	2847.5	2630.6	2513.0	2499.5	2522.1	2418.1	2422.6
42.5°	27128.2	18282.8	5270.2	3204.6	2752.6	2513.0	2400.0	2400.0	2382.0	2237.3	2237.3
45°	29523.7	19543.9	5360.5	3127.7	2639.6	2395.5	2309.6	2278.0	2201.2	2061.1	2056.5
47.5°	31937.3	20827.5	5428.3	2987.6	2504.0	2296.1	2219.2	2146.9	2033.9	1907.4	1902.9
50°	34228.9	21980.1	5356.0	2779.7	2350.3	2201.2	2119.8	2020.4	1898.3	1812.5	1798.9
52.5°	36276.4	22979.0	5048.7	2535.6	2187.6	2101.7	2029.4	1925.5	1826.0	1735.6	1726.6
55°	38057.2	23788.0	4506.3	2305.1	2043.0	2015.9	1943.5	1812.5	1676.9	1600.0	1591.0
57.5°	39765.7	24402.7	3828.3	2115.3	1911.9	1920.9	1812.5	1694.9	1568.4	1487.0	1478.0
60°	42039.2	25225.3	3141.3	1939.0	1771.8	1798.9	1681.4	1595.5	1437.3	1333.4	1319.8
62.5°	45673.2	26504.4	2495.0	1722.1	1609.1	1618.1	1568.4	1464.4	1274.6	1152.6	1143.5
65°	48556.8	26034.4	1966.1	1487.0	1423.8	1437.3	1437.3	1324.3	1120.9	980.8	967.2
67.5°	48231.4	22291.9	1568.4	1256.5	1247.5	1256.5	1288.2	1193.2	994.4	881.4	863.3
70°	44430.2	17731.4	1256.5	1044.1	1084.8	1062.2	1152.6	1089.3	894.9	781.9	768.4
72.5°	36253.8	12773.1	958.2	863.3	831.7	867.8	1039.6	980.8	745.8	619.2	605.7
75°	21184.6	6815.9	714.1	682.5	601.1	723.2	922.1	836.2	569.5	456.5	442.9
77.5°	6897.3	2377.4	524.3	501.7	447.5	583.1	786.5	705.1	465.5	361.6	348.0
80°	1848.6	718.7	357.1	329.9	289.3	433.9	623.7	560.5	334.5	235.0	230.5
82.5°	741.3	302.8	207.9	185.3	158.2	298.3	492.7	452.0	248.6	149.2	149.2
85°	239.6	99.4	76.8	58.8	72.3	185.3	293.8	307.4	176.3	76.8	58.8
87.5°	31.6	13.6	13.6	18.1	13.6	31.6	90.4	85.9	49.7	9.0	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)