

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: P957365

Luminaire Tested: **GALN-SB9D-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957365
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-SB9D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA 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: 66222 lumens
Efficiency: N/A
Efficacy: 100.6 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): 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

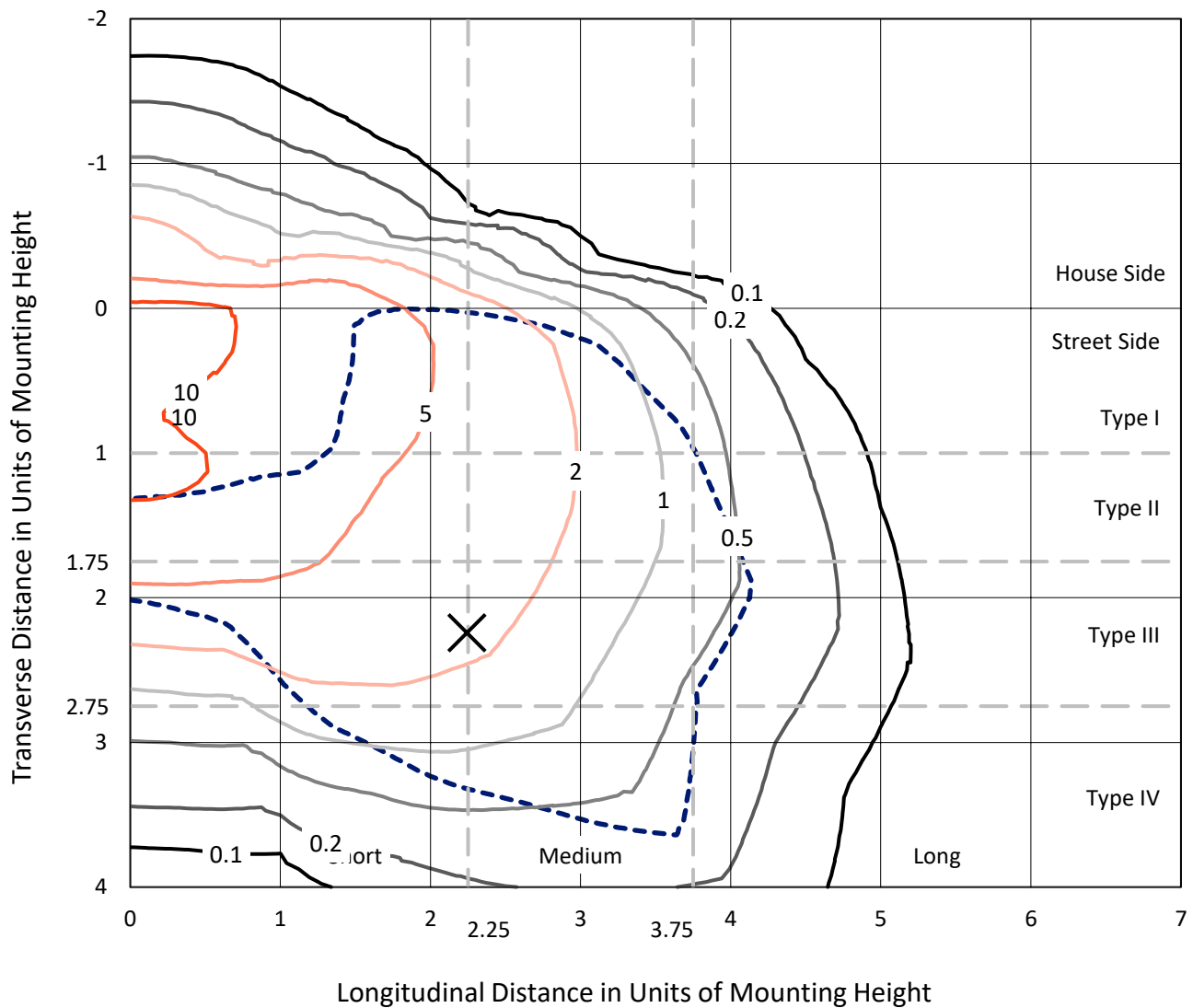


REPORT NUMBER: P957365

CATALOG NUMBER: GALN-SB9D-727-U-T4W-HSS

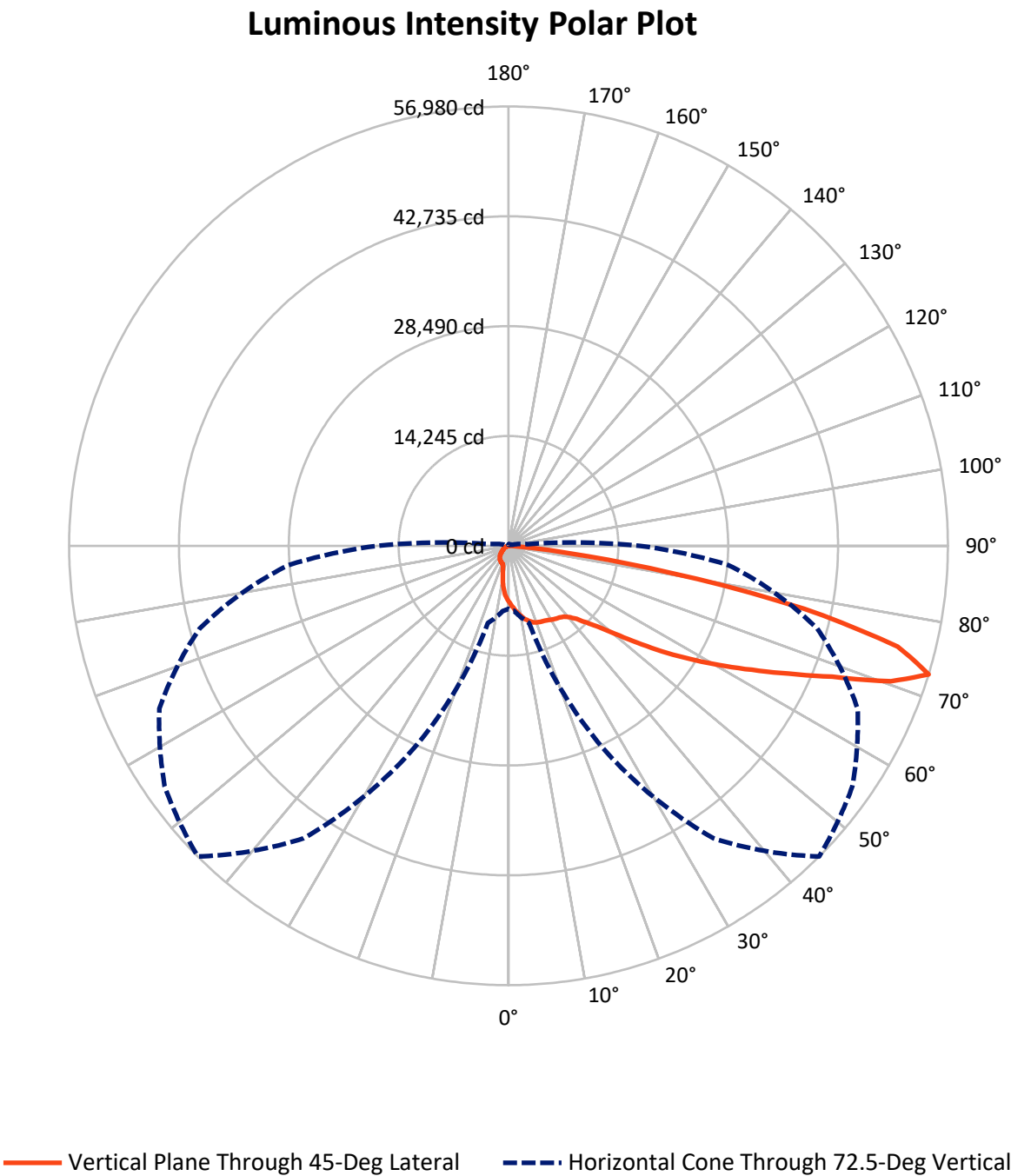
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
Type IV - Short - N/A

REPORT NUMBER: P957365
CATALOG NUMBER: GALN-SB9D-727-U-T4W-HSS



REPORT NUMBER: P957365

CATALOG NUMBER: GALN-SB9D-727-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6958.1	0.0	6958.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	59263.9	0.0	59263.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	66222.0	0.0	66222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.5	1.0
10°-20°	1997.7	3.0
20°-30°	3280.6	5.0
30°-40°	4652.6	7.0
40°-50°	7690.3	11.6
50°-60°	13814.7	20.9
60°-70°	19182.4	29.0
70°-80°	13914.3	21.0
80°-90°	1006.0	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°	66222.0	100.0
0°-180°	66222.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957365

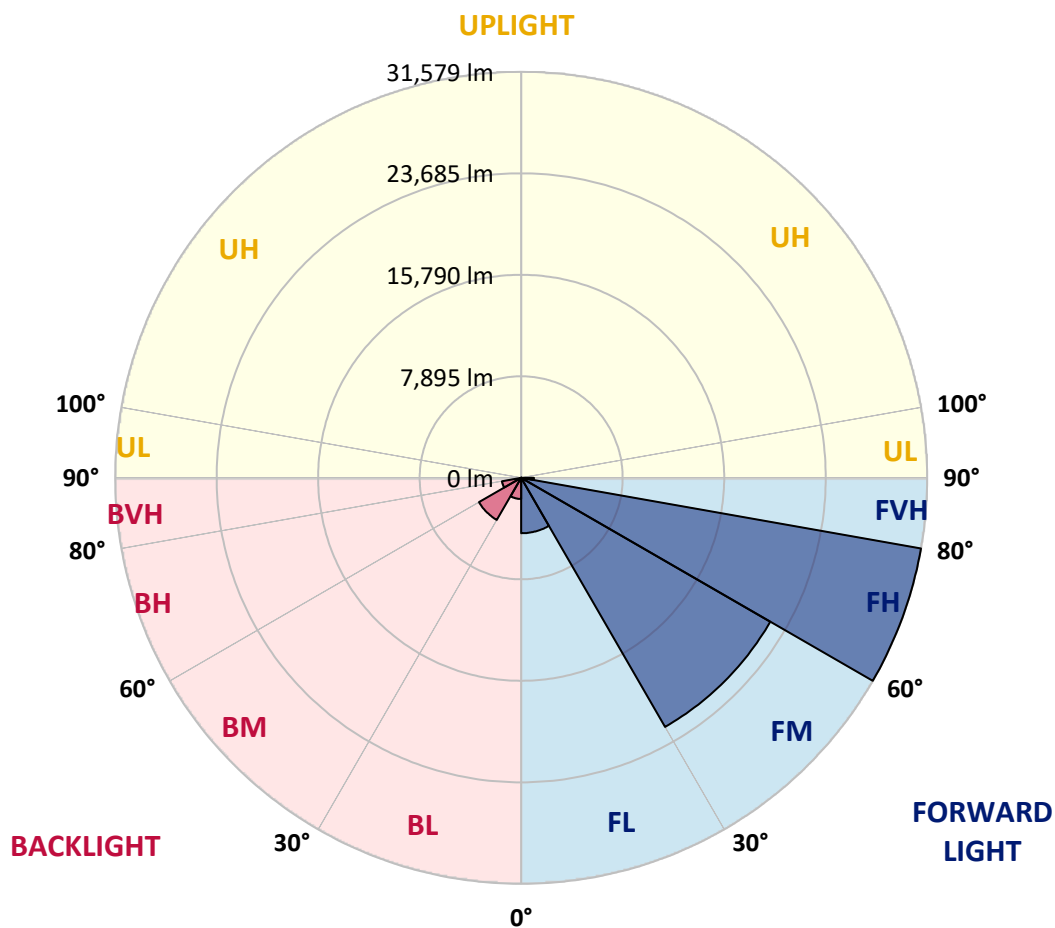
CATALOG NUMBER: GALN-SB9D-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4313.7	6.5			
FM	(30°-60°)	22373.3	33.8			
FH	(60°-80°)	31579.4	47.7			G5
FVH	(80°-90°)	997.5	1.5			G5
BL	(0°-30°)	1648.1	2.5	B3/2500		
BM	(30°-60°)	3784.2	5.7	B3/5000		
BH	(60°-80°)	1517.3	2.3	B3/2500		G3/2500
BVH	(80°-90°)	8.5	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



REPORT NUMBER: P957365

CATALOG NUMBER: GALN-SB9D-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8
2.5°	7923.7	7937.3	7928.3	7874.0	7783.6	7733.9	7706.8	7616.4	7557.6	7453.6	7345.2
5°	8651.5	8705.7	8674.1	8565.6	8393.8	8271.8	8235.6	8050.3	7883.1	7688.7	7462.7
7.5°	9424.4	9451.5	9392.8	9252.6	9022.1	8814.2	8782.6	8524.9	8258.2	7959.9	7652.5
10°	10093.4	10125.0	10034.6	9831.2	9569.1	9311.4	9266.2	8981.4	8665.0	8298.9	7905.7
12.5°	10653.9	10685.5	10568.0	10323.9	10034.6	9767.9	9722.7	9424.4	9076.4	8669.6	8181.4
15°	11078.8	11137.5	10979.3	10717.2	10405.3	10138.6	10116.0	9822.2	9483.2	9031.2	8511.3
17.5°	11327.4	11386.1	11237.0	10920.6	10653.9	10427.9	10400.8	10156.7	9840.3	9406.3	8832.3
20°	11368.1	11422.3	11264.1	10988.4	10766.9	10586.1	10572.5	10396.2	10165.7	9749.9	9180.3
22.5°	11246.0	11313.8	11169.2	10947.7	10794.0	10699.1	10681.0	10581.6	10450.5	10097.9	9505.8
25°	11119.4	11173.7	11065.2	10870.8	10789.5	10780.4	10794.0	10775.9	10748.8	10450.5	9885.5
27.5°	11110.4	11169.2	11047.1	10861.8	10816.6	10911.5	10925.1	11011.0	11033.6	10771.4	10251.6
30°	11187.2	11227.9	11110.4	10916.0	10893.4	11110.4	11114.9	11268.6	11304.8	11042.6	10613.2
32.5°	11354.5	11399.7	11282.2	10997.4	10965.8	11268.6	11282.2	11485.6	11544.3	11331.9	10992.9
35°	11747.7	11802.0	11666.4	11223.4	11110.4	11417.8	11458.5	11698.0	11815.5	11639.3	11386.1
37.5°	12728.6	12570.4	12385.1	11679.9	11440.4	11652.8	11720.6	12000.9	12208.8	12005.4	11856.2
40°	15164.9	14667.7	14089.2	12457.4	12018.9	12154.5	12208.8	12489.0	12773.8	12574.9	12502.6
42.5°	18821.7	18234.1	17302.9	14247.4	12891.3	12959.1	12999.8	13243.9	13646.2	13488.0	13506.1
45°	22080.7	21868.2	20919.0	17302.9	14523.1	14188.6	14238.3	14364.9	14957.0	14898.3	15015.8
47.5°	24584.8	24462.8	23730.5	20810.5	17280.3	15693.8	15833.9	15892.7	16747.0	16954.9	17271.3
50°	26510.4	26465.2	25809.8	23929.4	20882.9	17913.2	17962.9	17836.3	19115.5	19630.8	20232.0
52.5°	28327.5	28481.2	27997.5	26826.8	24729.5	20819.6	20810.5	20213.9	21940.6	22718.0	23744.1
55°	29968.3	30022.5	30072.2	29782.9	28598.7	24128.3	24042.4	23066.1	25217.6	26022.2	27134.2
57.5°	31509.6	31532.2	31975.2	32567.3	32626.1	27681.1	27522.9	26352.2	28797.6	29371.6	30054.1
60°	32544.7	32648.7	33584.3	35229.7	35948.4	31346.9	31261.0	30067.7	32440.8	32707.4	32580.9
62.5°	31053.1	31685.9	34045.4	37308.9	39085.3	35410.5	35369.8	34248.8	36273.8	36056.8	34972.0
65°	25136.3	26207.5	30357.0	38714.7	42163.5	39948.6	40007.4	38814.1	40210.8	39505.7	36915.7
67.5°	17583.2	18713.2	23622.0	38827.7	45603.3	45277.8	45616.9	43745.5	44391.9	42809.9	37376.7
70°	12159.1	12742.2	15937.9	36395.8	48283.7	52618.5	52609.4	49802.5	48550.4	44315.1	35026.3
72.5°	8176.9	8479.7	10351.0	28874.4	46312.9	56980.4	56718.2	54431.0	49951.6	41444.8	28616.8
75°	3448.8	3670.3	4791.3	16227.2	36639.9	52130.3	51420.7	48102.9	44382.9	32635.1	17854.4
77.5°	1093.9	1188.8	1889.4	5808.3	20182.2	39184.7	38434.4	30040.6	29746.8	16371.8	6527.0
80°	519.8	605.7	1062.2	2332.4	7941.8	21312.3	21208.3	13628.1	12796.4	4420.7	1310.8
82.5°	226.0	266.7	587.6	1247.5	3552.8	7602.8	7756.5	4637.6	3837.6	1677.0	402.3
85°	72.3	94.9	271.2	574.1	1500.7	1889.4	1866.8	1102.9	1545.9	913.1	140.1
87.5°	0.0	0.0	90.4	131.1	153.7	108.5	122.0	94.9	429.4	253.1	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957365

CATALOG NUMBER: GALN-SB9D-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8
2.5°	7290.9	7218.6	7092.0	6974.5	6870.6	6766.6	6703.3	6612.9	6603.9	6603.9	6626.5
5°	7340.6	7223.1	6997.1	6757.5	6481.8	6219.7	5957.5	5704.4	5623.0	5564.2	5591.4
7.5°	7485.3	7300.0	6942.9	6486.3	5962.0	5388.0	4985.7	4551.7	4384.5	4294.1	4307.7
10°	7693.2	7440.1	6897.7	6097.6	5247.8	4465.9	3891.8	3421.7	3240.9	3164.1	3164.1
12.5°	7923.7	7611.8	6816.3	5614.0	4465.9	3530.2	2969.7	2752.7	2725.6	2725.6	2725.6
15°	8199.5	7819.8	6676.2	5044.4	3647.7	2793.4	2594.5	2603.6	2630.7	2648.8	2648.8
17.5°	8484.2	8041.3	6454.7	4407.1	2924.5	2513.2	2517.7	2531.3	2553.9	2571.9	2571.9
20°	8791.6	8262.7	6160.9	3729.1	2508.7	2431.8	2445.4	2458.9	2477.0	2486.1	2490.6
22.5°	9121.6	8470.7	5812.8	3064.6	2368.5	2364.0	2368.5	2382.1	2404.7	2404.7	2413.7
25°	9474.1	8701.2	5415.1	2581.0	2296.2	2296.2	2305.3	2314.3	2332.4	2332.4	2336.9
27.5°	9835.7	8913.6	4994.7	2327.9	2232.9	2228.4	2228.4	2242.0	2251.0	2255.5	2260.1
30°	10233.5	9162.2	4574.3	2273.6	2183.2	2160.6	2147.0	2156.1	2165.1	2169.6	2178.7
32.5°	10640.3	9401.8	4199.2	2296.2	2133.5	2092.8	2047.6	2038.6	2038.6	2056.6	2070.2
35°	11092.3	9664.0	3909.9	2373.1	2106.4	1993.4	1921.0	1880.4	1884.9	1912.0	1925.6
37.5°	11634.7	9980.4	3697.4	2440.9	2088.3	1880.4	1762.8	1713.1	1681.5	1713.1	1704.1
40°	12344.4	10446.0	3543.8	2495.1	2065.7	1749.3	1591.1	1509.7	1451.0	1469.0	1460.0
42.5°	13388.5	11178.2	3485.0	2499.6	2016.0	1595.6	1414.8	1306.3	1220.4	1224.9	1206.9
45°	14853.0	12335.4	3787.8	2440.9	1907.5	1428.4	1229.5	1084.8	1030.6	1017.0	998.9
47.5°	16860.0	14021.4	4488.5	2318.8	1749.3	1265.6	1048.7	926.6	885.9	863.3	849.8
50°	19549.4	16186.5	5265.9	2183.2	1591.1	1111.9	899.5	822.7	795.5	772.9	768.4
52.5°	22668.3	18383.2	5903.3	2047.6	1432.9	976.3	804.6	759.4	736.8	718.7	714.2
55°	25529.5	19897.5	5867.1	1903.0	1279.2	867.9	736.8	709.7	682.5	664.5	655.4
57.5°	27310.4	20109.9	4836.5	1744.8	1102.9	782.0	673.5	655.4	623.8	601.2	596.7
60°	28128.6	18898.5	3390.1	1536.8	926.6	700.6	605.7	596.7	556.0	524.3	515.3
62.5°	28277.7	16647.5	2260.1	1279.2	772.9	623.8	537.9	524.3	470.1	415.8	388.7
65°	27672.1	13429.2	1564.0	998.9	659.9	542.4	461.1	433.9	375.2	320.9	302.8
67.5°	25755.5	9428.9	1089.3	718.7	560.5	429.4	366.1	357.1	311.9	266.7	253.1
70°	22243.4	5374.4	727.7	537.9	443.0	293.8	289.3	298.3	253.1	217.0	198.9
72.5°	17054.3	2458.9	452.0	393.2	302.8	198.9	230.5	235.0	194.4	162.7	144.6
75°	10039.1	1053.2	284.8	253.1	153.7	131.1	167.2	171.8	131.1	104.0	90.4
77.5°	3417.2	397.8	180.8	149.2	76.8	72.3	108.5	108.5	72.3	40.7	31.6
80°	777.5	149.2	90.4	58.8	36.2	31.6	36.2	31.6	18.1	4.5	0.0
82.5°	221.5	58.8	36.2	22.6	13.6	13.6	4.5	0.0	0.0	0.0	0.0
85°	63.3	27.1	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.1	4.5	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)