

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: P942646

Luminaire Tested: **GALN-SB6D-730-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48396 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 440.1
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

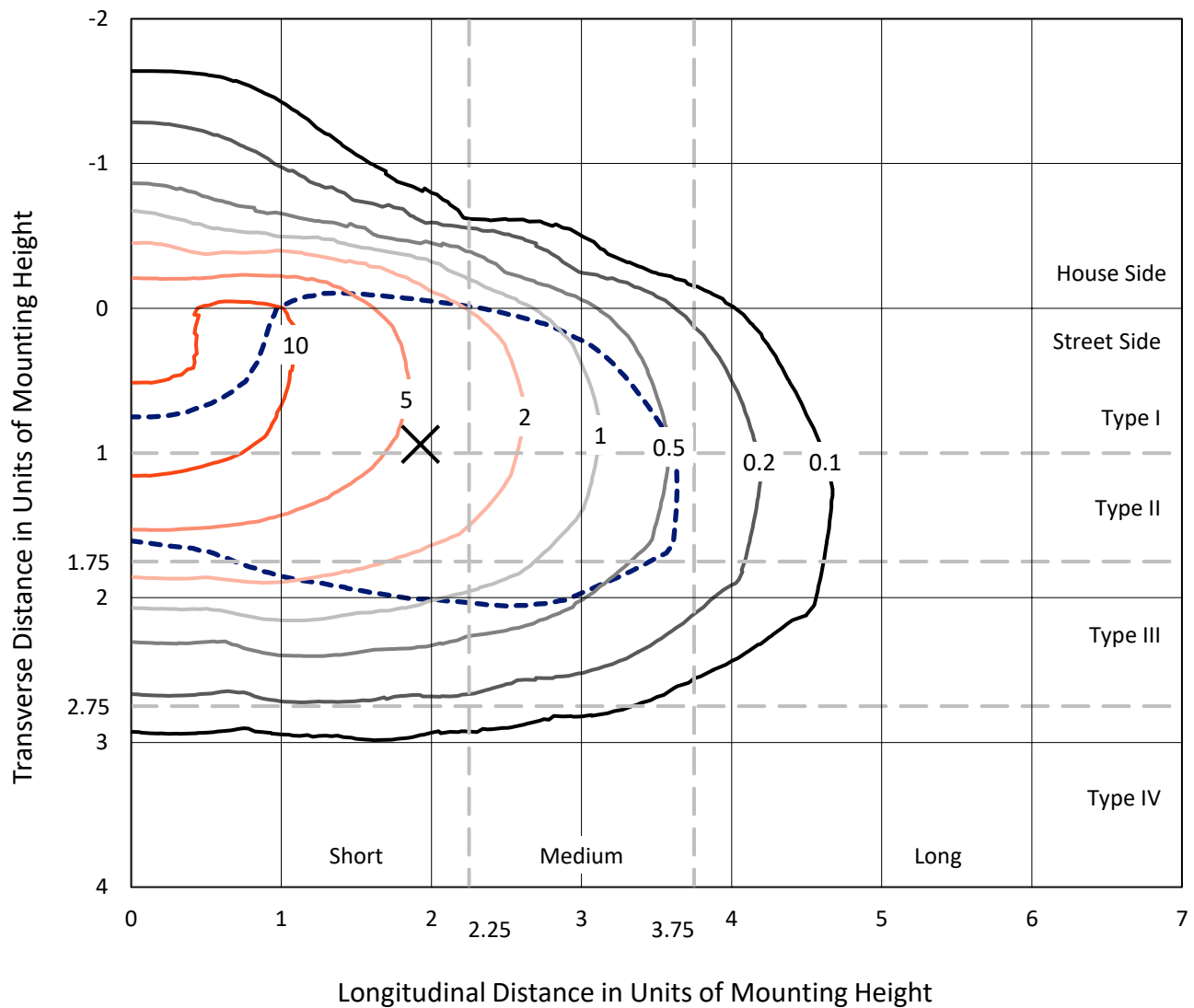


REPORT NUMBER: P942646

CATALOG NUMBER: GALN-SB6D-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

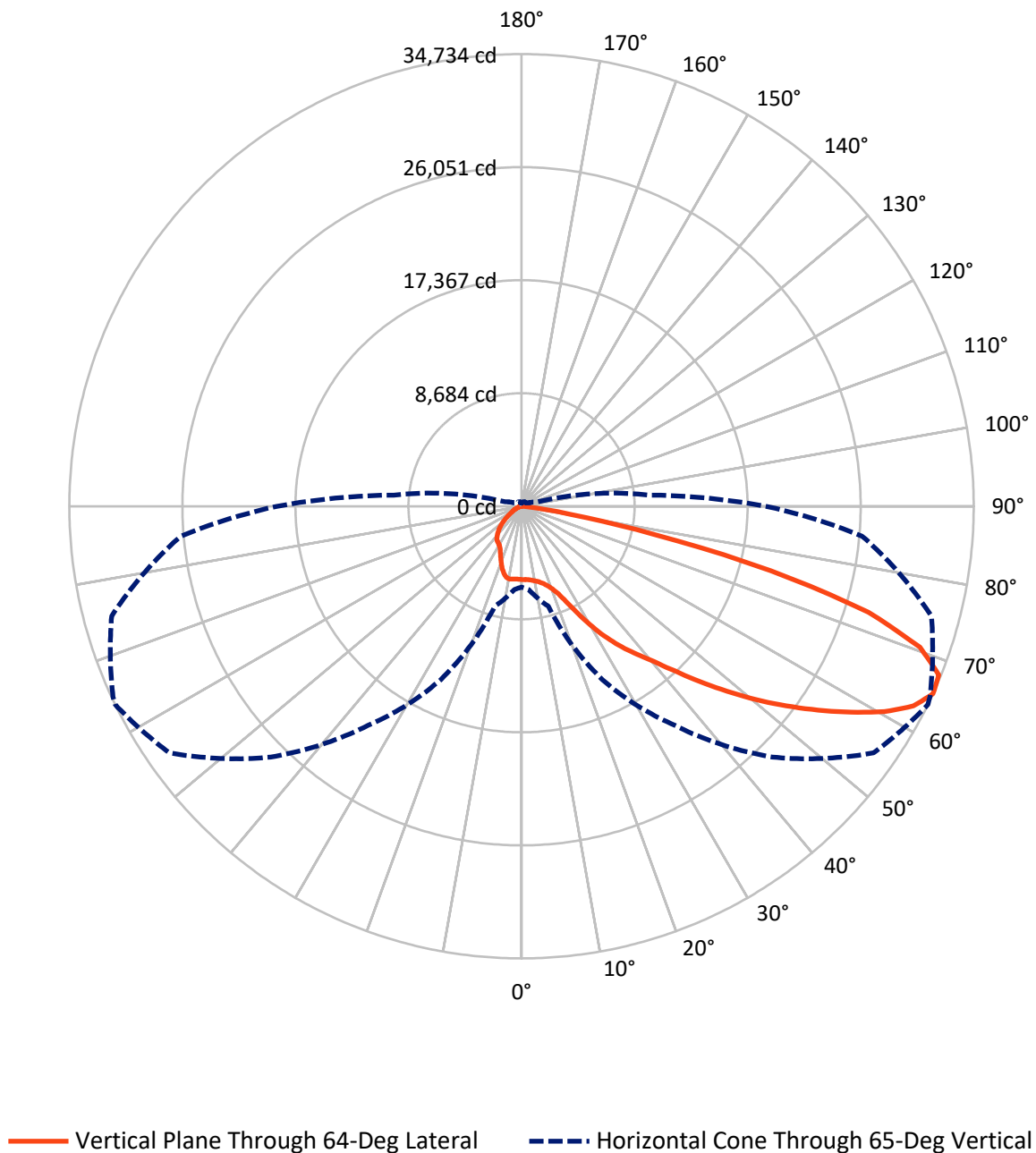


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
Type III - Short - N/A

REPORT NUMBER: P942646

CATALOG NUMBER: GALN-SB6D-730-U-T3-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6472.0	0.0	6472.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	41924.0	0.0	41924.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	48396.0	0.0	48396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.3	1.1
10°-20°	1408.6	2.9
20°-30°	2669.1	5.5
30°-40°	5401.0	11.2
40°-50°	9200.7	19.0
50°-60°	12512.2	25.9
60°-70°	11749.6	24.3
70°-80°	4707.4	9.7
80°-90°	228.1	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°	48396.0	100.0
0°-180°	48396.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942646

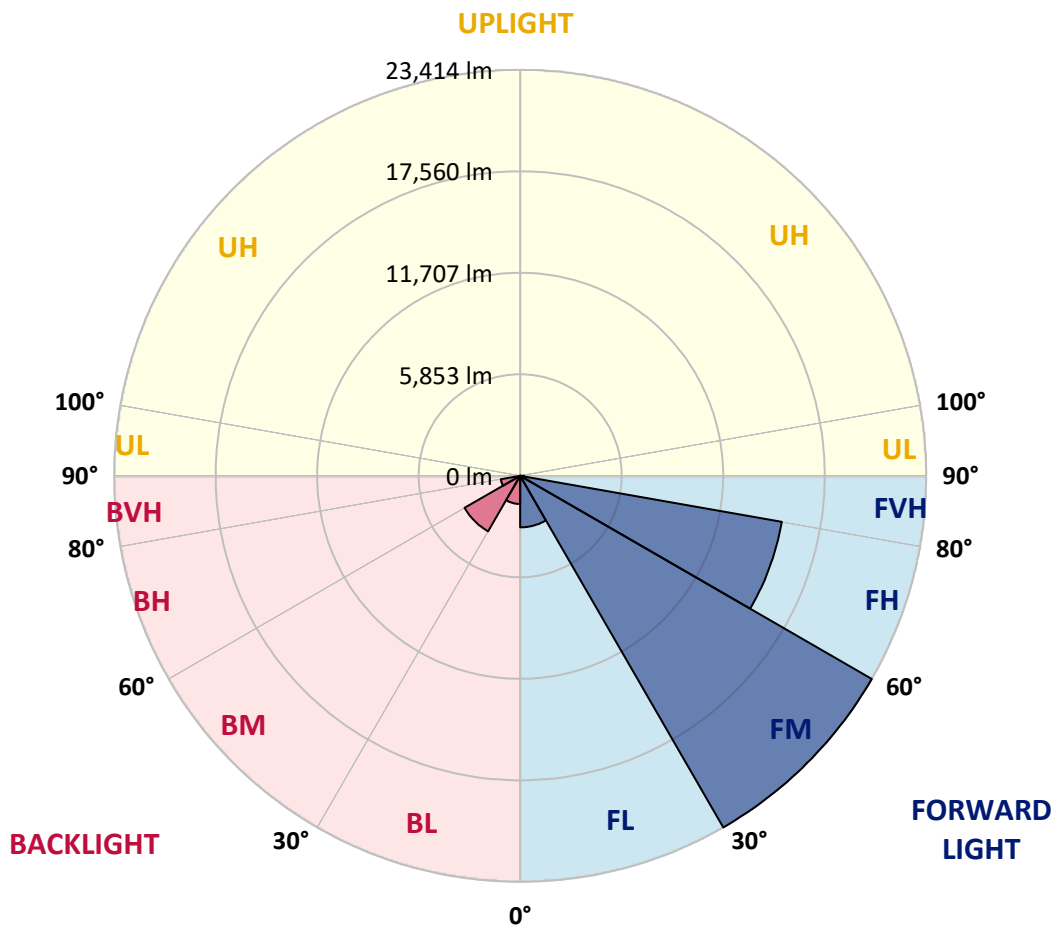
CATALOG NUMBER: GALN-SB6D-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2972.1	6.1			
FM	(30°-60°)	23413.9	48.4			
FH	(60°-80°)	15321.1	31.7			G5
FVH	(80°-90°)	216.9	0.4			G2/225
BL	(0°-30°)	1624.9	3.4	B3/2500		
BM	(30°-60°)	3700.0	7.6	B3/5000		
BH	(60°-80°)	1135.9	2.3	B3/2500		G3/2500
BVH	(80°-90°)	11.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



REPORT NUMBER: P942646

CATALOG NUMBER: GALN-SB6D-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0
2.5°	5609.5	5648.4	5638.7	5629.0	5625.7	5632.2	5635.4	5632.2	5632.2	5632.2	5635.4
5°	5502.4	5534.9	5534.9	5557.6	5590.0	5629.0	5658.2	5664.6	5671.1	5680.9	5677.6
7.5°	5298.0	5324.0	5343.5	5418.1	5499.2	5603.0	5690.6	5736.0	5742.5	5778.2	5791.2
10°	5158.5	5191.0	5223.4	5301.3	5418.1	5573.8	5723.0	5833.4	5849.6	5933.9	5972.9
12.5°	5152.0	5184.5	5226.7	5311.0	5447.3	5612.7	5794.4	5953.4	5982.6	6105.9	6187.0
15°	5220.2	5259.1	5298.0	5401.9	5547.8	5749.0	5943.7	6141.6	6170.8	6346.0	6433.6
17.5°	5359.7	5411.6	5440.8	5544.6	5700.3	5924.2	6180.5	6407.6	6433.6	6638.0	6748.3
20°	5635.4	5697.1	5706.8	5791.2	5943.7	6183.7	6488.7	6771.0	6803.4	7037.0	7160.3
22.5°	6206.5	6294.1	6216.2	6258.4	6394.6	6634.7	6965.6	7322.5	7367.9	7634.0	7744.3
25°	7212.2	7335.5	7134.3	7063.0	7121.4	7371.2	7786.5	8237.4	8289.3	8503.5	8558.6
27.5°	9188.0	9029.0	8724.1	8425.6	8250.4	8393.1	8860.3	9418.4	9483.3	9690.9	9626.0
30°	11358.5	11219.0	10806.9	10145.1	9729.8	9707.1	10138.6	10761.5	10836.1	11034.1	10836.1
32.5°	13532.2	13399.2	12951.5	12137.1	11416.9	11060.0	11358.5	12049.5	12088.5	12215.0	11923.0
35°	15670.2	15534.0	15086.3	14252.5	13366.7	12555.7	12497.3	13275.9	13288.9	13421.9	12987.2
37.5°	17821.2	17707.7	17230.8	16413.2	15540.5	14421.2	13879.4	14437.4	14453.6	14583.4	14132.4
40°	19355.8	19404.5	19076.8	18444.2	17694.7	16471.6	15430.2	15673.5	15576.2	15793.5	15524.2
42.5°	20673.0	20770.4	20484.9	20166.9	19732.2	18655.0	17350.8	17308.6	17152.9	17269.7	16990.7
45°	21811.8	21892.9	21636.6	21562.0	21552.3	20796.3	19449.9	19196.9	18979.5	18956.8	18622.6
47.5°	22230.3	22386.1	22496.4	22746.2	23232.8	22914.9	21620.4	21227.8	20984.5	20806.1	20277.2
50°	22389.3	22554.8	22931.1	23657.8	24809.6	24945.9	23781.1	23339.9	23041.4	22717.0	21938.3
52.5°	22175.2	22470.4	22976.5	24199.7	25870.5	26574.5	25854.3	25468.2	25127.5	24598.7	23443.7
55°	20913.1	21208.4	22243.3	24193.2	26399.3	27716.5	27813.9	27641.9	27259.1	26425.3	24660.3
57.5°	18252.7	18690.7	20329.1	23369.1	26389.6	28699.6	29734.5	29857.8	29429.6	28235.6	25617.4
60°	14567.2	15160.9	17159.4	21542.5	25575.3	29231.6	31418.3	32034.8	31580.6	30020.0	26392.8
62.5°	10164.6	10852.4	12743.8	18681.0	23713.0	28848.8	32648.0	33786.7	33442.8	31616.2	26691.3
65°	6200.0	6420.6	7945.4	14700.2	20546.5	27246.1	33027.5	34734.1	34620.5	32592.8	26250.1
67.5°	4130.1	4315.0	4753.0	10080.2	15949.3	24043.9	32119.1	34568.6	34601.1	32433.8	24634.4
70°	2488.4	2647.4	2932.9	5862.6	10336.5	19031.4	29306.3	32459.8	32648.0	30308.8	21571.7
72.5°	1025.2	1132.3	1391.8	2657.1	5353.2	12078.7	23336.7	27869.0	28307.0	25484.4	16555.9
75°	580.7	635.9	817.6	1333.4	2323.0	5629.0	14135.7	19784.1	20429.7	17564.9	9960.2
77.5°	386.1	412.0	528.8	863.0	1307.5	1920.7	6041.0	10307.3	11540.2	9593.6	4311.7
80°	259.5	282.3	363.4	577.5	850.0	824.1	1923.9	3818.6	4697.8	3296.3	1051.2
82.5°	175.2	178.4	259.5	379.6	538.6	399.1	567.8	1187.4	1492.4	953.8	399.1
85°	100.6	97.3	191.4	220.6	240.1	165.5	172.0	356.9	467.2	402.3	227.1
87.5°	13.0	19.5	74.6	58.4	32.4	35.7	35.7	61.6	90.8	97.3	48.7
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: P942646

CATALOG NUMBER: GALN-SB6D-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0	5629.0
2.5°	5635.4	5632.2	5622.5	5612.7	5590.0	5577.0	5583.5	5577.0	5573.8	5577.0	5590.0
5°	5677.6	5667.9	5641.9	5609.5	5564.1	5508.9	5473.2	5421.3	5372.7	5343.5	5349.9
7.5°	5791.2	5781.4	5745.8	5654.9	5508.9	5278.6	5067.7	4882.8	4743.2	4662.1	4665.4
10°	5972.9	5956.6	5901.5	5700.3	5317.5	4814.6	4396.1	4049.0	3821.9	3714.8	3705.1
12.5°	6187.0	6167.5	6070.2	5658.2	4954.1	4169.0	3591.5	3205.4	2994.5	2900.5	2890.7
15°	6440.0	6414.1	6222.7	5457.0	4425.3	3455.2	2926.4	2637.7	2501.4	2417.0	2420.3
17.5°	6754.7	6709.3	6336.2	5155.3	3851.1	2910.2	2517.6	2300.2	2180.2	2099.1	2092.6
20°	7163.5	7088.9	6427.1	4795.2	3322.2	2566.3	2241.8	2060.2	1969.3	1897.9	1885.0
22.5°	7734.5	7627.5	6537.4	4405.8	2949.1	2329.4	2037.5	1904.4	1829.8	1748.7	1735.7
25°	8441.8	8315.3	6673.6	4045.7	2692.8	2125.1	1888.2	1777.9	1690.3	1596.2	1586.5
27.5°	9431.3	9204.2	6835.9	3750.5	2472.2	1949.9	1752.0	1628.7	1528.1	1450.2	1434.0
30°	10534.4	10161.3	6978.6	3572.0	2271.0	1787.6	1573.5	1450.2	1356.1	1301.0	1291.3
32.5°	11579.1	11073.0	7072.7	3494.2	2089.4	1602.7	1378.9	1245.8	1174.5	1158.2	1168.0
35°	12565.4	11897.1	7063.0	3419.6	1927.1	1417.8	1187.4	1051.2	996.0	1005.8	1005.8
37.5°	13700.9	12776.3	6994.8	3302.8	1794.1	1249.1	1022.0	901.9	853.3	856.5	869.5
40°	15021.4	13791.8	6952.7	3082.1	1648.1	1093.3	885.7	788.4	752.7	739.7	736.5
42.5°	16429.4	14774.8	6959.1	2832.3	1466.4	953.8	791.6	710.5	678.1	668.3	665.1
45°	17844.0	15712.4	6968.9	2572.8	1275.0	846.8	723.5	655.4	635.9	622.9	622.9
47.5°	19174.1	16510.5	6787.2	2293.8	1086.9	765.7	668.3	622.9	606.7	590.5	590.5
50°	20413.5	17042.6	6349.2	1969.3	937.6	700.8	626.2	593.7	577.5	561.3	561.3
52.5°	21377.1	17127.0	5625.7	1635.2	833.8	652.1	600.2	571.0	551.5	535.3	532.1
55°	21805.3	16598.1	4597.3	1323.7	752.7	609.9	574.3	545.1	522.3	506.1	502.9
57.5°	21695.0	15485.3	3585.0	1064.1	674.8	567.8	541.8	522.3	496.4	470.4	467.2
60°	21153.2	13996.2	2702.5	885.7	603.5	522.3	506.1	489.9	454.2	415.3	408.8
62.5°	20215.6	12124.2	1927.1	733.2	525.6	470.4	463.9	451.0	399.1	327.7	321.2
65°	18781.6	9849.9	1297.7	609.9	451.0	412.0	415.3	392.6	324.4	243.3	236.8
67.5°	16685.7	7202.5	830.6	499.6	376.3	343.9	347.1	334.2	275.8	207.6	197.9
70°	14015.6	4769.2	541.8	379.6	301.7	266.0	285.5	288.7	233.6	168.7	162.2
72.5°	10274.9	2816.1	379.6	282.3	220.6	184.9	233.6	240.1	188.2	126.5	120.0
75°	5856.1	1336.7	285.5	204.4	136.3	129.8	181.7	181.7	129.8	84.4	77.9
77.5°	2459.2	558.0	201.2	133.0	77.9	74.6	123.3	113.6	64.9	38.9	38.9
80°	710.5	249.8	107.1	64.9	32.4	29.2	48.7	35.7	16.2	6.5	6.5
82.5°	279.0	110.3	42.2	26.0	13.0	13.0	6.5	0.0	0.0	0.0	0.0
85°	165.5	45.4	19.5	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.2	9.7	6.5	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)