

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: P953793

Luminaire Tested: **GALN-SB7B-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30924 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 256.7
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

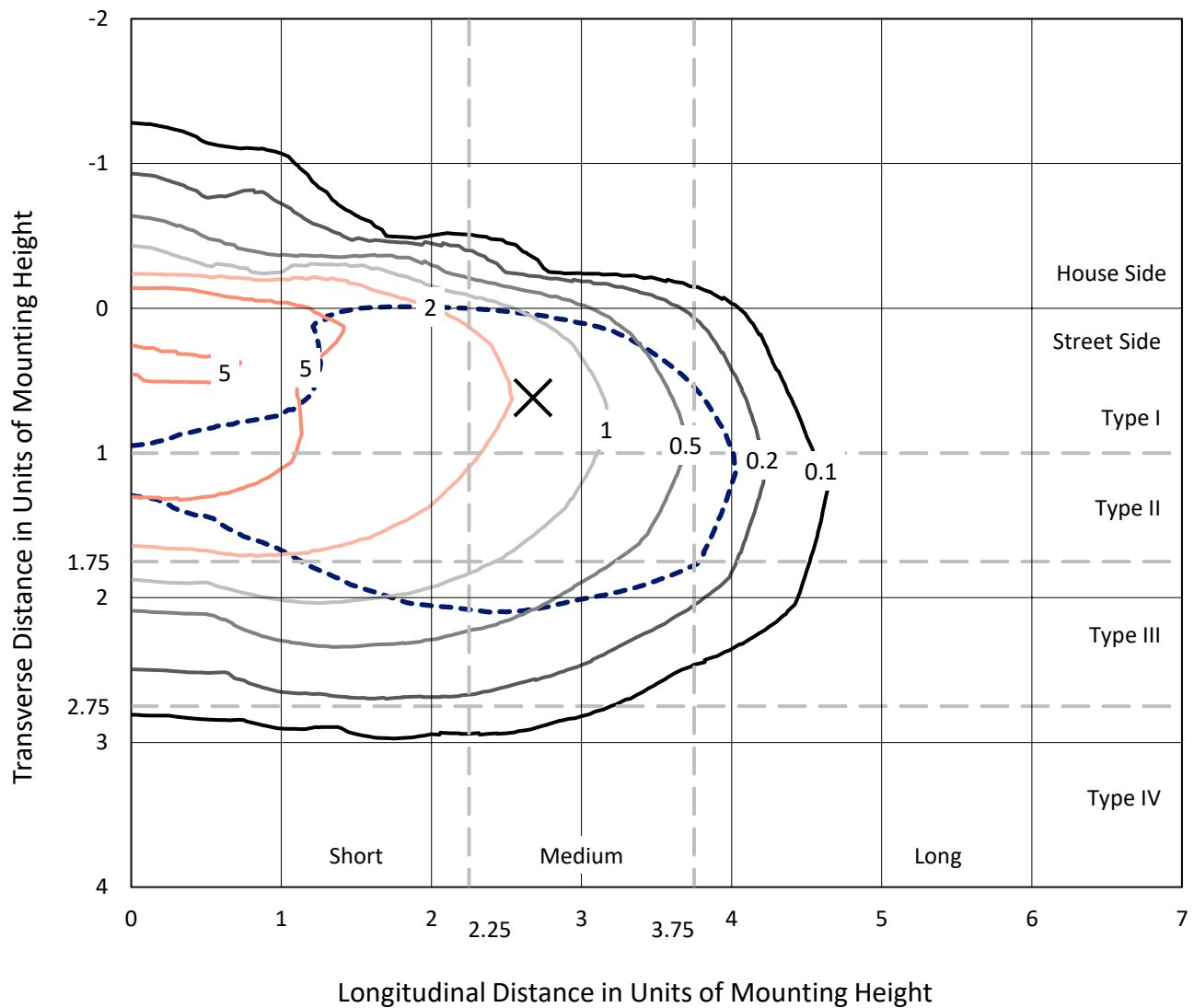


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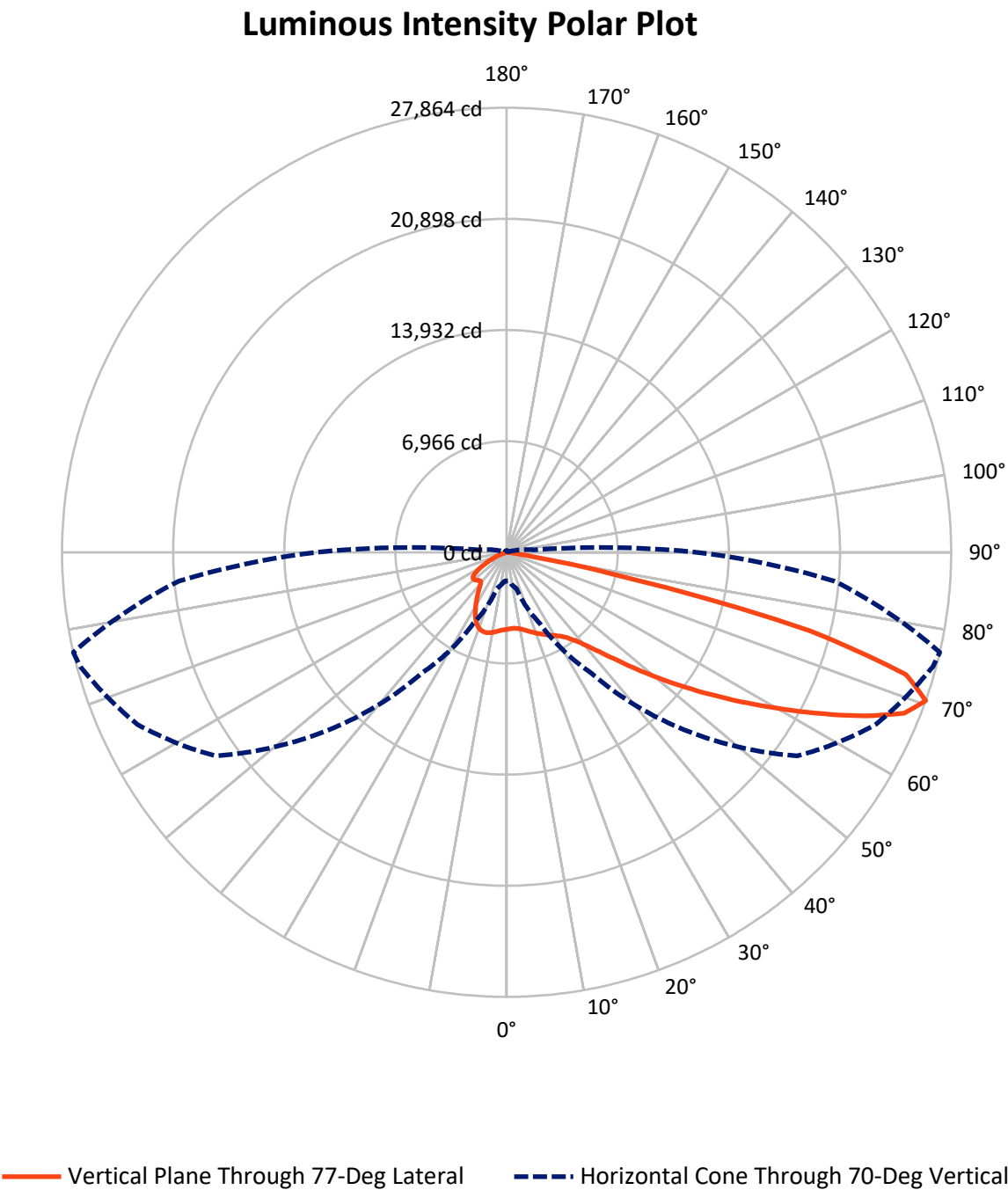
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3259.8	0.0	3259.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27664.2	0.0	27664.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	30924.0	0.0	30924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.7	1.3
10°-20°	986.9	3.2
20°-30°	1526.4	4.9
30°-40°	2769.7	9.0
40°-50°	5228.2	16.9
50°-60°	7554.3	24.4
60°-70°	8041.4	26.0
70°-80°	4261.4	13.8
80°-90°	139.9	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°	30924.0	100.0
0°-180°	30924.0	100.0

Coefficient of Utilization



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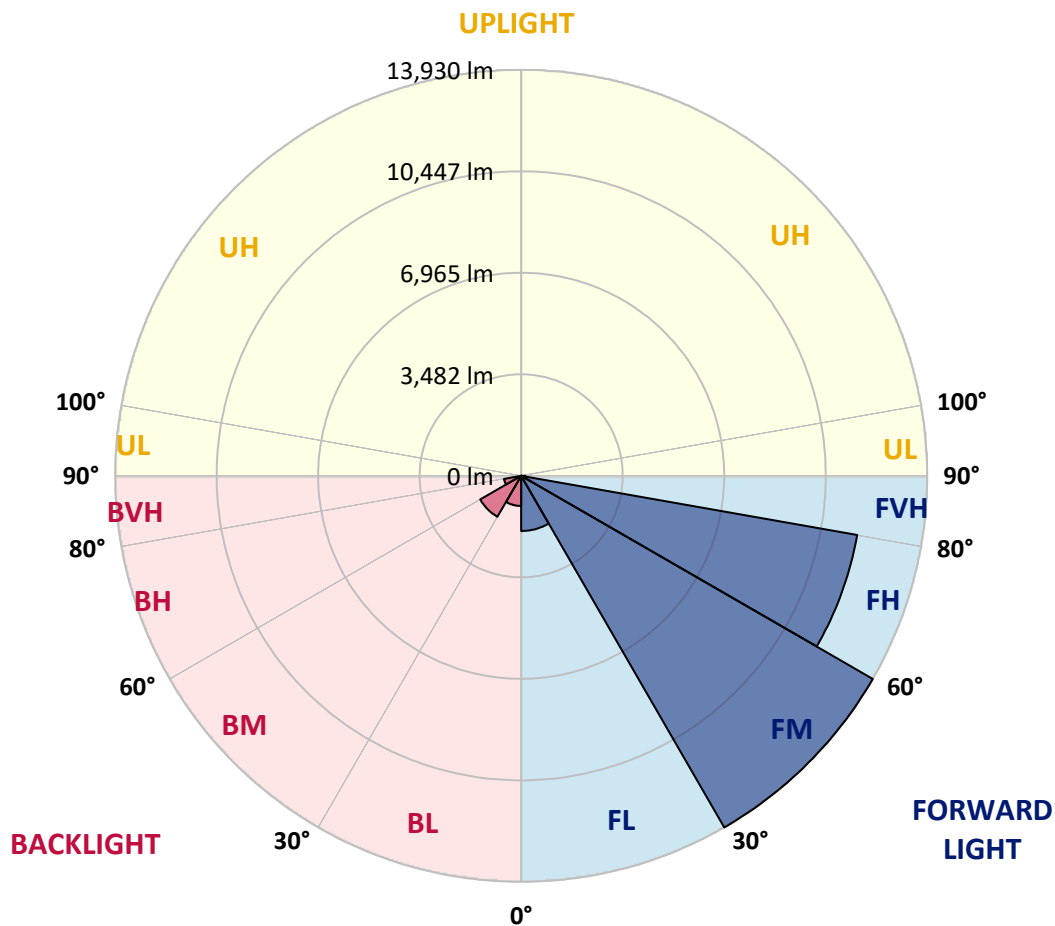
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1893.3	6.1			
FM	(30°-60°)	13929.6	45.0			
FH	(60°-80°)	11705.2	37.9			G4/12000
FVH	(80°-90°)	136.2	0.4			G2/225
BL	(0°-30°)	1035.7	3.3	B3/2500		
BM	(30°-60°)	1622.8	5.2	B2/2500		
BH	(60°-80°)	597.6	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.8	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6
2.5°	4528.7	4569.7	4563.9	4591.2	4601.0	4640.0	4679.1	4731.8	4790.4	4788.4	4827.5
5°	4272.9	4313.9	4323.7	4360.8	4407.6	4468.2	4548.2	4653.7	4763.0	4780.6	4858.7
7.5°	3970.2	4013.1	4038.5	4112.7	4198.7	4323.7	4454.5	4608.8	4790.4	4815.8	4966.1
10°	3667.5	3706.5	3739.7	3845.2	3981.9	4167.4	4380.3	4602.9	4847.0	4884.1	5097.0
12.5°	3480.0	3517.1	3554.2	3646.0	3815.9	4042.4	4331.5	4630.3	4940.8	4993.5	5274.7
15°	3413.6	3446.8	3476.1	3558.1	3716.3	3974.1	4321.7	4686.9	5059.9	5130.2	5489.5
17.5°	3423.4	3441.0	3460.5	3523.0	3677.3	3942.8	4339.3	4784.5	5200.5	5263.0	5704.3
20°	3480.0	3489.8	3491.7	3534.7	3671.4	3938.9	4374.4	4878.3	5333.3	5417.3	5917.2
22.5°	3552.3	3556.2	3552.3	3581.6	3708.5	3968.2	4421.3	4991.5	5481.7	5559.8	6132.0
25°	3890.1	3815.9	3722.2	3665.5	3771.0	4024.9	4491.6	5143.9	5643.8	5720.0	6341.0
27.5°	4938.8	4725.9	4390.0	4013.1	3899.9	4106.9	4589.2	5298.1	5807.8	5876.2	6565.5
30°	6641.7	6362.4	5792.2	4942.7	4313.9	4278.7	4716.2	5452.4	5981.6	6055.8	6805.7
32.5°	8348.5	8280.2	7622.0	6446.4	5245.4	4661.5	4927.1	5661.4	6212.1	6270.7	7129.9
35°	10074.8	9936.2	9397.2	8235.2	6680.8	5440.7	5278.6	5934.8	6514.8	6581.2	7602.5
37.5°	11396.9	11313.0	10979.0	10022.1	8383.7	6643.7	5880.1	6358.5	6954.2	7028.4	8207.9
40°	12564.8	12525.7	12412.4	11781.7	10287.7	8217.7	6815.5	7014.7	7563.5	7651.3	8950.0
42.5°	13482.6	13574.4	13638.8	13463.1	12250.3	10014.3	8073.2	7936.5	8413.0	8502.8	9895.2
45°	14421.9	14453.2	14712.9	14966.8	14199.3	11893.0	9490.9	9016.4	9469.5	9580.8	11027.8
47.5°	15025.4	15150.4	15607.3	16054.5	15837.8	13756.0	11014.2	10291.6	10693.9	10902.9	12297.2
50°	15070.3	15306.6	15935.4	16714.6	17031.0	15529.2	12670.2	11744.6	12172.2	12402.7	13652.5
52.5°	14322.3	14689.5	15664.0	16804.4	17675.4	17031.0	14382.9	13197.5	13746.2	14047.0	15058.6
55°	10981.0	11461.4	14642.6	16316.2	17700.8	18169.5	16050.6	14711.0	15499.9	15839.7	16577.9
57.5°	9567.1	9809.3	11512.2	15468.7	17230.2	18628.4	17558.2	16152.2	17407.9	17829.7	18013.3
60°	7959.9	8278.2	9655.0	14082.1	16591.6	18673.3	18890.1	18011.3	19476.0	19950.5	19329.5
62.5°	5409.4	5755.1	7124.1	11699.6	15718.6	18651.8	19981.8	19925.1	21774.5	22284.2	20444.6
65°	3351.1	3567.9	4470.1	9553.4	14498.1	18675.3	21124.2	22249.0	24199.9	24717.5	21307.7
67.5°	2648.1	2747.7	3218.3	7335.0	12394.9	18148.0	22264.7	24434.3	26482.9	26893.0	21571.4
70°	1779.1	1839.6	2341.5	4917.3	9221.4	15714.7	22243.2	25531.8	27658.5	27863.5	20610.6
72.5°	937.4	984.2	1369.0	2277.0	5569.6	11170.4	18749.5	24219.5	26488.7	26180.2	17616.8
75°	468.7	546.8	921.8	1156.1	2378.6	6229.7	11643.0	19095.1	20848.8	19653.7	11303.2
77.5°	355.4	429.6	761.6	761.6	828.0	2097.4	4931.0	10414.6	9606.2	7998.9	3317.9
80°	226.5	292.9	665.9	576.1	345.7	533.1	1285.0	2917.6	2040.7	1552.5	603.4
82.5°	132.8	191.4	554.6	380.8	193.3	197.2	363.2	621.0	529.2	412.1	185.5
85°	52.7	125.0	380.8	150.4	76.2	48.8	109.4	132.8	109.4	82.0	46.9
87.5°	0.0	29.3	66.4	0.0	5.9	3.9	7.8	9.8	9.8	7.8	15.6
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°	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6	4823.6
2.5°	4845.1	4849.0	4860.7	4862.6	4835.3	4800.2	4786.5	4780.6	4757.2	4755.2	4759.1
5°	4903.7	4921.2	4903.7	4852.9	4731.8	4561.9	4433.0	4327.6	4231.9	4202.6	4185.0
7.5°	5020.8	5038.4	4985.7	4786.5	4481.8	4144.0	3839.3	3624.5	3431.2	3358.9	3329.6
10°	5188.8	5212.2	5046.2	4643.9	4104.9	3562.0	3046.5	2683.2	2400.1	2284.9	2236.0
12.5°	5399.7	5409.4	5079.4	4427.2	3614.8	2839.5	2109.1	1720.5	1468.6	1374.8	1345.5
15°	5632.1	5618.4	5083.3	4132.3	2946.9	2007.5	1376.8	1130.7	1029.2	997.9	997.9
17.5°	5876.2	5819.5	5005.2	3706.5	2214.6	1372.9	1021.4	962.8	945.2	937.4	935.4
20°	6116.4	5989.4	4862.6	3150.0	1589.6	1025.3	927.6	910.0	900.3	896.4	892.5
22.5°	6335.1	6118.3	4618.5	2503.6	1154.1	906.1	876.8	861.2	843.6	835.8	833.9
25°	6548.0	6192.5	4274.8	1900.1	923.7	847.5	824.1	794.8	771.4	761.6	757.7
27.5°	6755.0	6239.4	3845.2	1406.1	824.1	792.9	749.9	708.9	691.3	687.4	683.5
30°	6975.6	6255.0	3357.0	1048.7	763.6	724.5	662.0	615.2	605.4	607.3	607.3
32.5°	7245.1	6278.5	2864.9	859.3	712.8	642.5	568.3	519.5	511.7	519.5	517.5
35°	7567.4	6325.3	2390.3	790.9	667.9	558.5	478.5	437.4	429.6	435.5	433.5
37.5°	8004.8	6401.5	1947.0	777.2	630.8	488.2	402.3	369.1	369.1	371.0	369.1
40°	8586.8	6604.6	1550.6	767.5	611.2	435.5	339.8	326.1	332.0	335.9	335.9
42.5°	9295.7	7036.2	1283.0	755.8	589.8	412.1	308.6	302.7	312.5	316.4	316.4
45°	10090.5	7583.0	1189.3	736.2	570.2	427.7	294.9	287.1	298.8	300.7	302.7
47.5°	10912.6	8118.1	1177.6	714.7	550.7	451.1	291.0	273.4	287.1	289.0	291.0
50°	11744.6	8467.6	1189.3	681.6	519.5	451.1	292.9	259.7	271.4	277.3	279.3
52.5°	12582.3	8627.8	1181.5	609.3	464.8	423.8	292.9	248.0	259.7	263.6	263.6
55°	13394.7	8596.5	1062.4	501.9	394.5	375.0	285.1	238.2	246.1	248.0	248.0
57.5°	14037.2	8161.0	841.7	390.6	320.3	312.5	259.7	226.5	232.4	230.4	230.4
60°	14373.1	7204.1	601.5	300.7	251.9	246.1	228.5	210.9	214.8	205.1	203.1
62.5°	14377.0	5938.7	402.3	238.2	201.1	195.3	195.3	189.4	185.5	166.0	160.1
65°	14070.4	4534.6	267.5	189.4	162.1	152.3	164.0	162.1	148.4	121.1	117.2
67.5°	13375.2	2972.3	203.1	148.4	125.0	119.1	130.8	136.7	126.9	101.5	99.6
70°	11945.7	1730.2	167.9	115.2	93.7	87.9	105.5	117.2	105.5	82.0	78.1
72.5°	9922.5	933.5	136.7	85.9	64.4	58.6	84.0	95.7	84.0	60.5	58.6
75°	6438.6	499.9	105.5	56.6	33.2	37.1	62.5	70.3	58.6	39.1	35.2
77.5°	2161.8	220.7	66.4	27.3	15.6	15.6	37.1	43.0	27.3	13.7	11.7
80°	482.4	91.8	27.3	11.7	5.9	5.9	7.8	7.8	3.9	0.0	0.0
82.5°	158.2	37.1	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	60.5	13.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.4	2.0	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)