

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: P941278

Luminaire Tested: **GALN-SB4D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28641 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 293.6
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



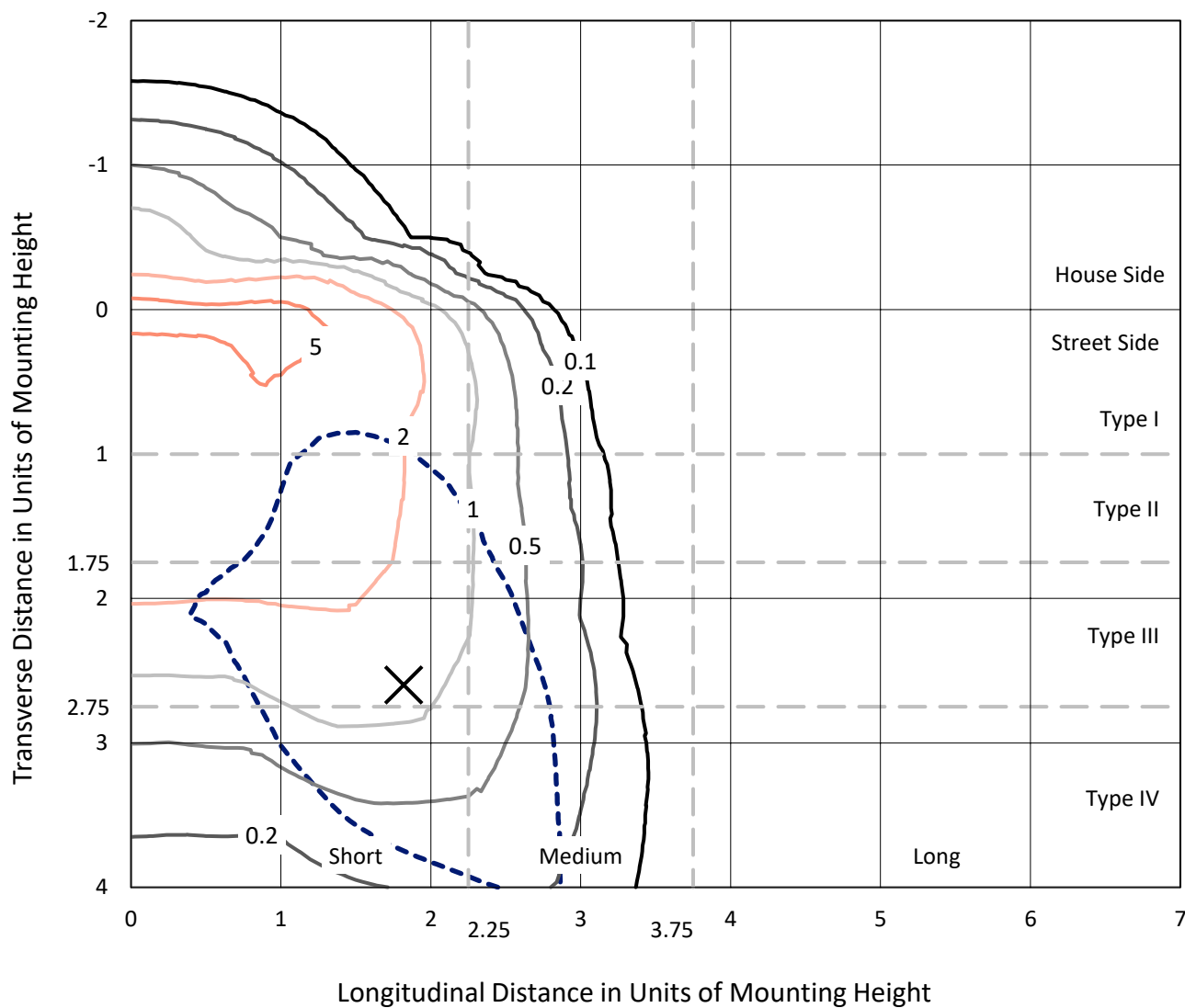
REPORT NUMBER: P941278

CATALOG NUMBER: GALN-SB4D-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

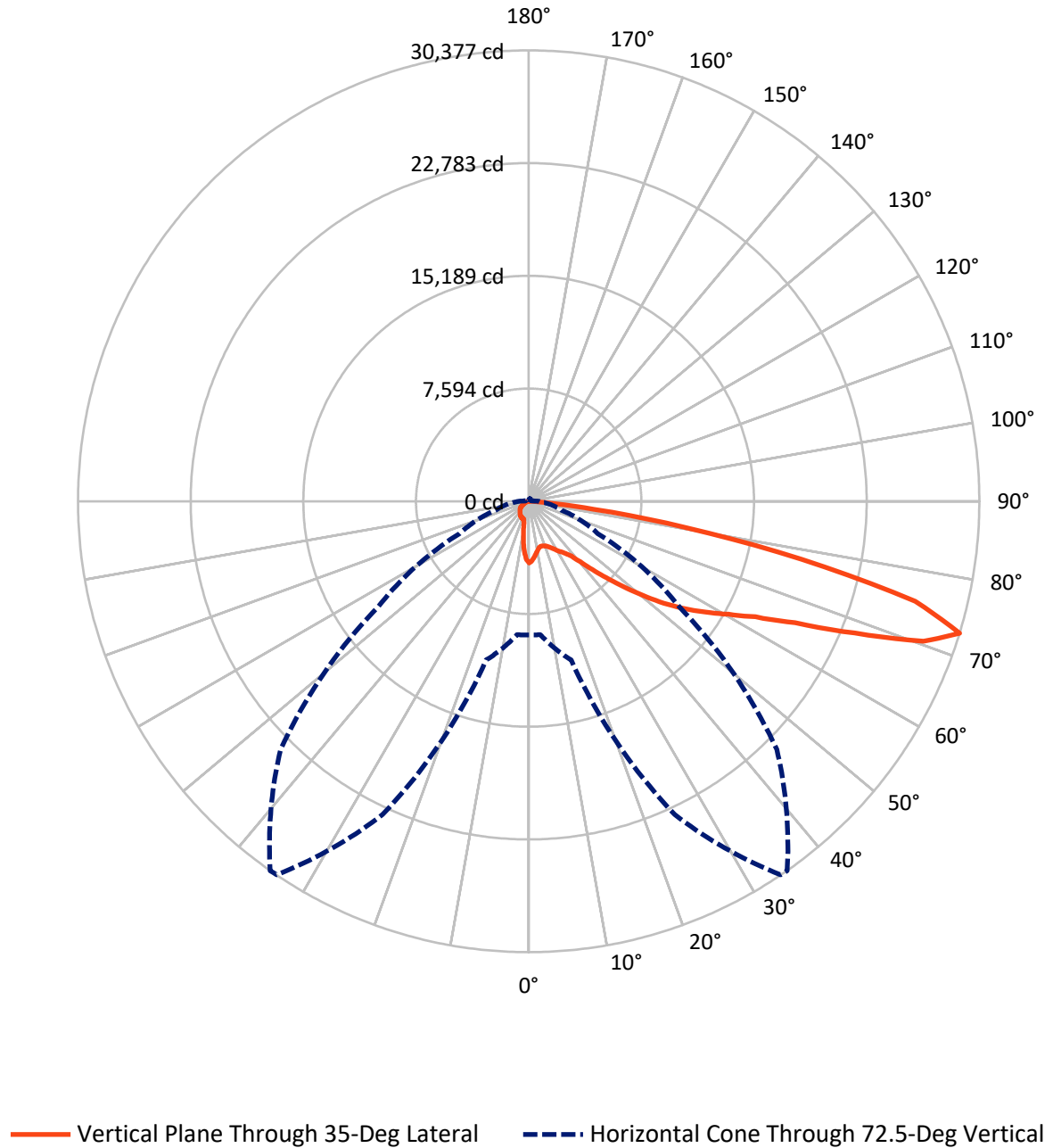


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

Type IV - Short - N/A

REPORT NUMBER: P941278
CATALOG NUMBER: GALN-SB4D-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P941278

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3223.4	0.0	3223.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25417.6	0.0	25417.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	28641.0	0.0	28641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	1.2
10°-20°	798.0	2.8
20°-30°	1296.3	4.5
30°-40°	2162.8	7.6
40°-50°	4092.2	14.3
50°-60°	6502.4	22.7
60°-70°	8043.9	28.1
70°-80°	5000.2	17.5
80°-90°	404.1	1.4
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°	28641.0	100.0
0°-180°	28641.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941278

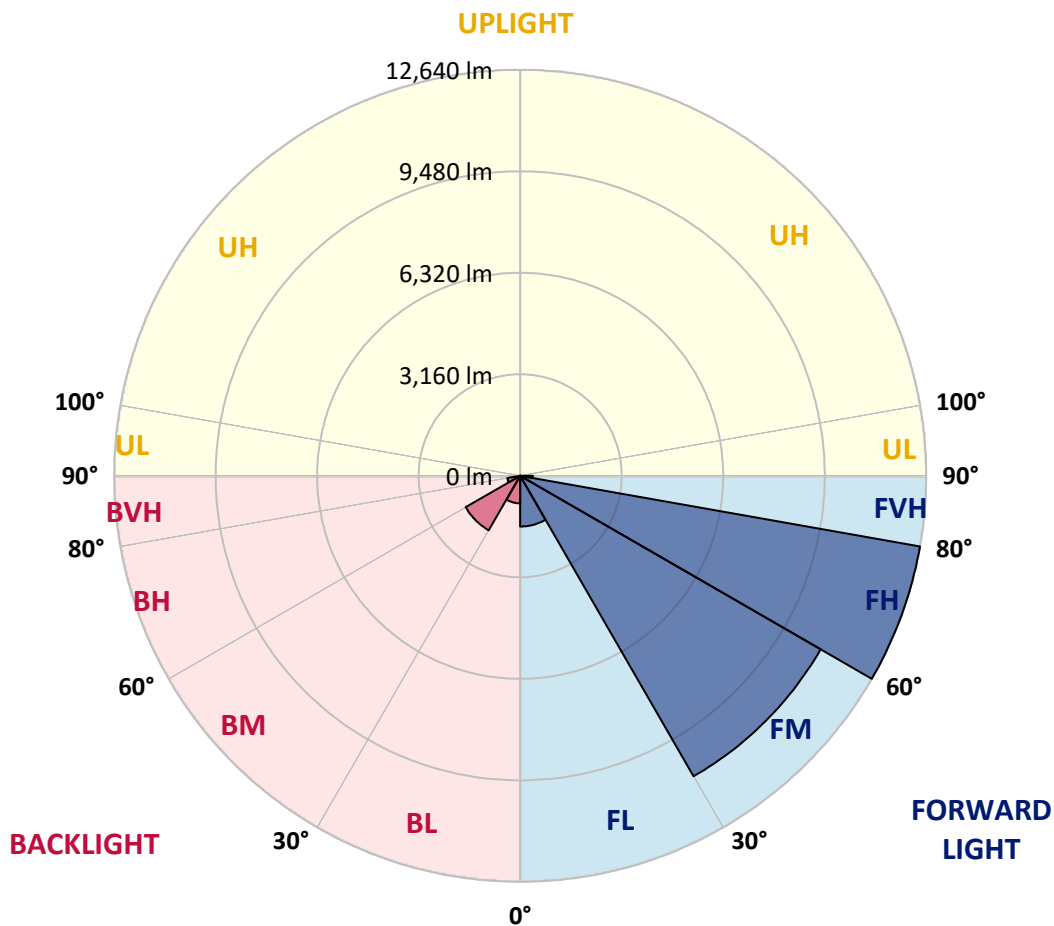
CATALOG NUMBER: GALN-SB4D-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.8	5.5			
FM	(30°-60°)	10800.5	37.7			
FH	(60°-80°)	12639.6	44.1			G5
FVH	(80°-90°)	398.6	1.4			G3/500
BL	(0°-30°)	856.5	3.0	B2/1000		
BM	(30°-60°)	1956.9	6.8	B2/2500		
BH	(60°-80°)	404.5	1.4	B1/500		G1/500
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



REPORT NUMBER: P941278

CATALOG NUMBER: GALN-SB4D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0
2.5°	3966.4	3999.9	4006.2	4016.7	4016.7	4029.3	4050.3	4079.7	4128.0	4153.1	4169.9
5°	3655.8	3681.0	3712.4	3737.6	3785.9	3792.2	3874.0	3953.8	4065.0	4148.9	4207.7
7.5°	3343.1	3372.5	3414.4	3475.3	3538.2	3557.1	3681.0	3815.3	3991.5	4148.9	4247.6
10°	3122.7	3124.8	3162.6	3223.5	3324.2	3347.3	3498.4	3689.3	3909.7	4123.8	4285.4
12.5°	2998.9	3013.6	3030.4	3076.6	3173.1	3187.8	3349.4	3573.9	3827.9	4109.1	4329.4
15°	2998.9	3009.4	3019.9	3043.0	3120.6	3133.2	3275.9	3500.5	3785.9	4115.4	4400.8
17.5°	3030.4	3047.2	3038.8	3066.1	3147.9	3156.3	3282.2	3479.5	3783.8	4155.2	4509.9
20°	3105.9	3118.5	3101.7	3118.5	3200.4	3217.2	3347.3	3519.4	3819.5	4224.5	4646.3
22.5°	3225.6	3231.9	3192.0	3204.6	3288.5	3309.5	3460.6	3632.7	3905.5	4335.7	4828.9
25°	3376.7	3389.2	3328.4	3343.1	3422.8	3448.0	3622.2	3802.7	4041.9	4488.9	5061.8
27.5°	3550.8	3557.1	3504.7	3502.6	3605.4	3641.1	3817.4	4012.5	4224.5	4682.0	5355.6
30°	3750.2	3769.1	3718.7	3710.3	3840.4	3869.8	4044.0	4270.7	4493.1	4971.6	5773.3
32.5°	3907.6	3922.3	3892.9	3913.9	4046.1	4069.2	4318.9	4635.8	4914.9	5382.9	6342.0
35°	4134.3	4142.6	4075.5	4113.3	4264.4	4323.1	4694.6	5147.9	5445.9	5899.2	7084.9
37.5°	4954.8	4954.8	4669.4	4482.6	4627.4	4679.9	5208.7	5792.2	6100.6	6591.7	8020.9
40°	6090.2	6071.3	5653.6	5271.7	5252.8	5355.6	5941.2	6604.3	6946.4	7422.8	9074.4
42.5°	7301.0	7271.7	6702.9	6325.2	6262.2	6297.9	6786.9	7605.3	7953.7	8436.4	10207.6
45°	8375.5	8367.1	7846.7	7338.8	7225.5	7338.8	7842.5	8776.4	9026.1	9534.0	11338.8
47.5°	9275.8	9275.8	8896.0	8564.4	8505.6	8572.8	9271.6	10075.4	10052.3	10702.9	12440.5
50°	10312.5	10304.2	9943.2	9800.5	9861.3	9955.8	10916.9	11443.7	11114.2	11850.8	13424.8
52.5°	11038.7	11089.0	10965.2	10942.1	11252.7	11416.4	12587.4	12782.6	12064.9	12940.0	14161.4
55°	11613.7	11672.4	11815.1	11976.7	12574.8	12788.9	14205.5	14052.3	12860.3	13884.4	14585.3
57.5°	12427.9	12344.0	12564.3	12883.3	13850.8	14108.9	15773.1	15250.6	13500.3	14650.4	14631.5
60°	13416.4	13429.0	13466.7	13869.7	15124.6	15456.2	17317.7	16383.8	13911.7	15120.5	14119.4
62.5°	14604.2	14623.1	14700.7	15319.8	16835.0	17147.7	18963.0	17311.4	14100.5	14988.2	12797.3
65°	14522.3	14602.1	15468.8	17586.3	19435.2	19743.7	20883.2	17962.0	13815.1	13779.4	10419.6
67.5°	13229.6	13359.7	14809.9	20293.5	23355.4	23699.5	23204.3	18090.0	12583.2	10715.5	6797.4
70°	11533.9	11580.1	13324.0	22727.9	27894.7	28243.0	25281.9	16681.8	9548.7	5976.8	3045.1
72.5°	9007.2	9017.7	11063.8	23292.4	30358.4	30377.3	23651.3	12383.9	5135.3	2295.9	1057.7
75°	6434.3	6371.4	7410.2	18889.5	26708.9	26923.0	17731.1	5808.9	1962.2	1085.0	526.7
77.5°	3450.1	3519.4	4193.0	11202.4	18450.9	18816.1	9674.6	1674.7	998.9	738.7	348.4
80°	1066.1	1124.9	1718.8	5129.0	10451.1	10671.4	3586.5	745.0	696.7	526.7	228.7
82.5°	335.8	348.4	801.7	2155.3	4337.8	4438.6	1038.8	421.8	476.4	348.4	134.3
85°	96.5	98.6	356.8	803.8	1072.4	1093.4	291.7	163.7	272.8	216.2	69.3
87.5°	10.5	33.6	134.3	134.3	94.4	92.3	31.5	35.7	77.6	27.3	12.6
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: P941278

CATALOG NUMBER: GALN-SB4D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0	4151.0
2.5°	4159.4	4161.5	4134.3	4088.1	4037.7	3995.7	3943.3	3901.3	3871.9	3863.5	3878.2
5°	4188.8	4174.1	4096.5	3955.9	3788.0	3643.2	3481.6	3353.6	3269.6	3234.0	3246.5
7.5°	4232.9	4190.9	4020.9	3743.9	3422.8	3137.4	2847.8	2623.3	2480.6	2409.2	2419.7
10°	4270.7	4186.7	3895.0	3437.5	2946.4	2514.1	2123.8	1853.1	1702.0	1630.6	1632.7
12.5°	4306.3	4184.6	3731.3	3074.5	2409.2	1880.4	1517.3	1383.0	1341.0	1326.3	1322.1
15°	4373.5	4190.9	3525.7	2658.9	1874.1	1420.8	1288.5	1286.4	1294.8	1290.6	1288.5
17.5°	4465.8	4197.2	3292.7	2218.2	1445.9	1252.9	1246.6	1265.5	1278.1	1271.8	1269.7
20°	4585.5	4222.4	3045.1	1781.7	1242.4	1210.9	1225.6	1242.4	1252.9	1242.4	1240.3
22.5°	4753.3	4266.5	2774.4	1431.2	1177.3	1185.7	1198.3	1217.2	1227.7	1213.0	1210.9
25°	4959.0	4335.7	2507.8	1244.5	1145.8	1156.3	1175.2	1196.2	1208.8	1194.1	1192.0
27.5°	5225.5	4446.9	2262.3	1202.5	1114.4	1120.7	1147.9	1179.4	1196.2	1177.3	1177.3
30°	5611.7	4629.5	2050.3	1221.4	1095.5	1080.8	1118.6	1162.6	1181.5	1164.7	1162.6
32.5°	6123.7	4887.7	1920.2	1250.8	1087.1	1034.6	1070.3	1127.0	1158.4	1147.9	1147.9
35°	6795.3	5280.1	1869.9	1284.3	1080.8	986.3	1011.5	1072.4	1127.0	1137.4	1137.4
37.5°	7609.5	5825.7	1884.5	1299.0	1061.9	946.5	959.1	1011.5	1082.9	1116.5	1124.9
40°	8535.0	6461.6	1968.5	1284.3	1040.9	912.9	915.0	954.9	1017.8	1068.2	1085.0
42.5°	9489.9	7204.5	2123.8	1229.8	1022.0	883.5	877.2	904.5	946.5	982.1	996.8
45°	10398.6	7968.4	2277.0	1154.2	998.9	854.1	839.4	849.9	858.3	873.0	881.4
47.5°	11191.9	8505.6	2232.9	1085.0	967.5	820.6	795.4	791.2	766.0	763.9	761.8
50°	11739.6	8623.2	1983.2	1015.7	921.3	782.8	742.9	717.7	673.7	652.7	654.8
52.5°	11913.8	8159.4	1620.1	946.5	845.7	732.4	675.8	635.9	581.3	562.4	560.3
55°	11682.9	7250.7	1294.8	862.5	740.8	665.3	602.3	549.8	505.8	482.7	482.7
57.5°	11118.4	6094.3	1024.1	763.9	629.6	589.7	526.7	474.3	436.5	413.4	409.2
60°	10182.4	4839.4	810.1	646.4	537.2	507.9	442.8	409.2	375.7	348.4	342.1
62.5°	8761.7	3454.3	635.9	512.1	449.1	415.5	377.7	352.6	312.7	274.9	268.6
65°	6837.3	2113.3	491.1	375.7	361.0	344.2	321.1	298.0	249.7	212.0	205.7
67.5°	4312.6	1001.0	350.5	283.3	285.4	277.0	266.5	247.6	212.0	178.4	174.2
70°	1899.2	484.8	230.8	216.2	212.0	212.0	220.4	214.1	180.5	149.0	142.7
72.5°	646.4	260.2	172.1	163.7	153.2	151.1	184.7	178.4	144.8	115.4	109.1
75°	337.9	174.2	125.9	117.5	92.3	111.2	146.9	138.5	102.8	75.5	69.3
77.5°	220.4	123.8	86.0	75.5	52.5	73.5	109.1	96.5	60.9	37.8	33.6
80°	138.5	81.8	50.4	35.7	25.2	39.9	58.8	42.0	23.1	8.4	6.3
82.5°	73.5	42.0	18.9	12.6	10.5	12.6	14.7	10.5	4.2	0.0	0.0
85°	29.4	14.7	6.3	4.2	2.1	0.0	4.2	2.1	0.0	0.0	0.0
87.5°	10.5	2.1	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)