

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: P941948

Luminaire Tested: **GALN-SB5D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941948
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-SB5D-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 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: 32151 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 364.9
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



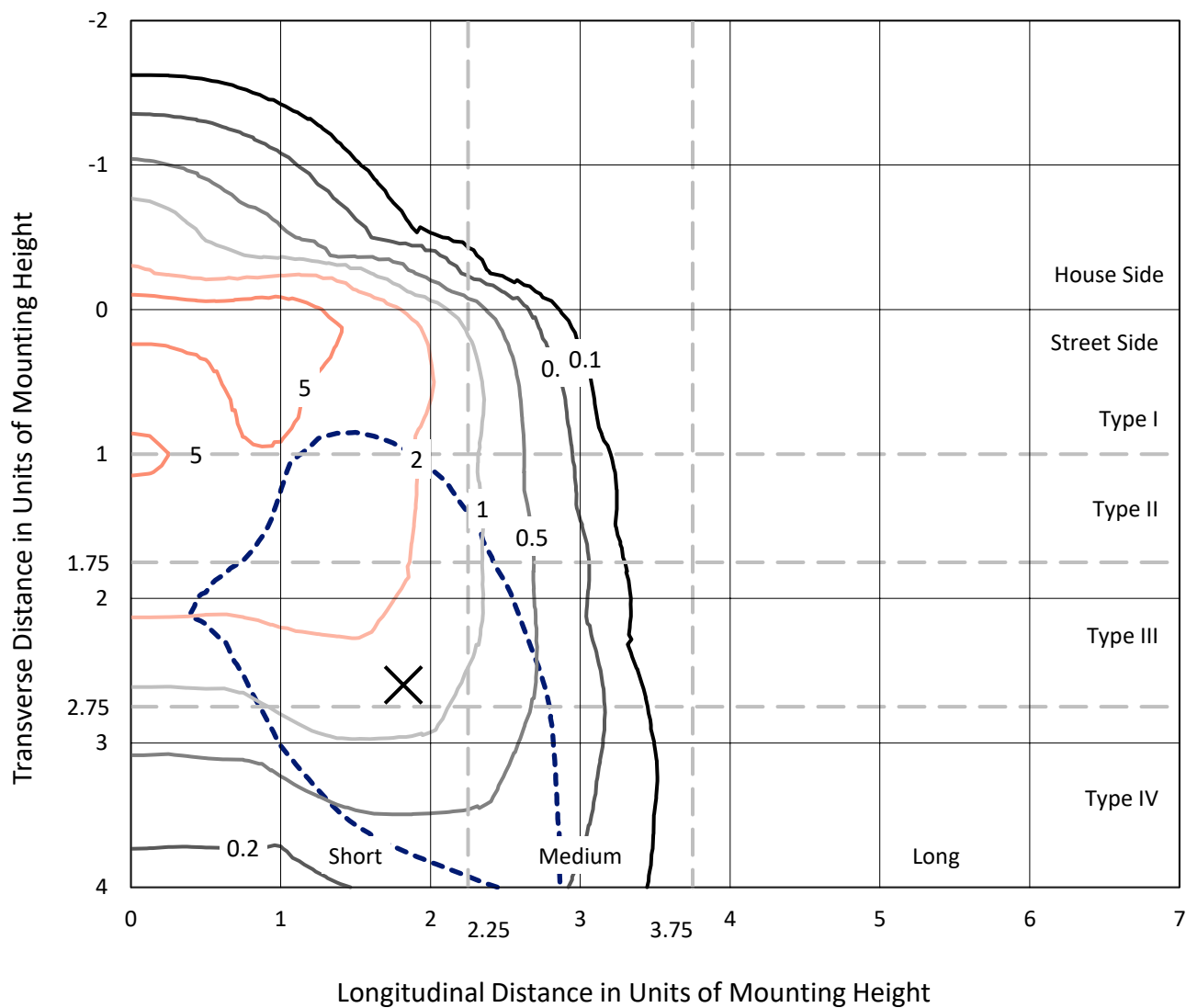
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

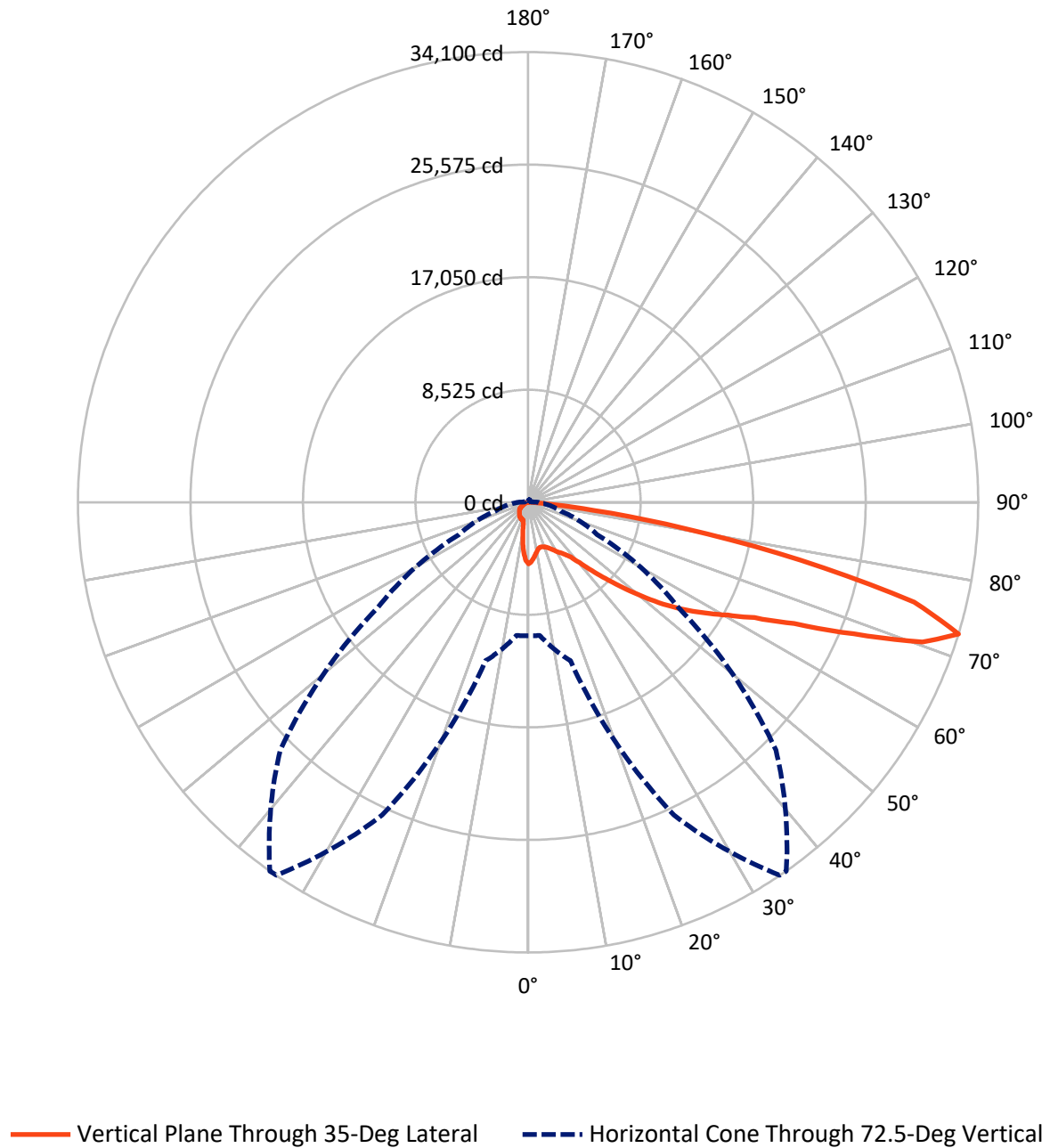
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3618.4	0.0	3618.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	28532.5	0.0	28532.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	32151.0	0.0	32151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.9	1.2
10°-20°	895.8	2.8
20°-30°	1455.2	4.5
30°-40°	2427.9	7.6
40°-50°	4593.7	14.3
50°-60°	7299.3	22.7
60°-70°	9029.7	28.1
70°-80°	5612.9	17.5
80°-90°	453.6	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°	32151.0	100.0
0°-180°	32151.0	100.0

Coefficient of Utilization



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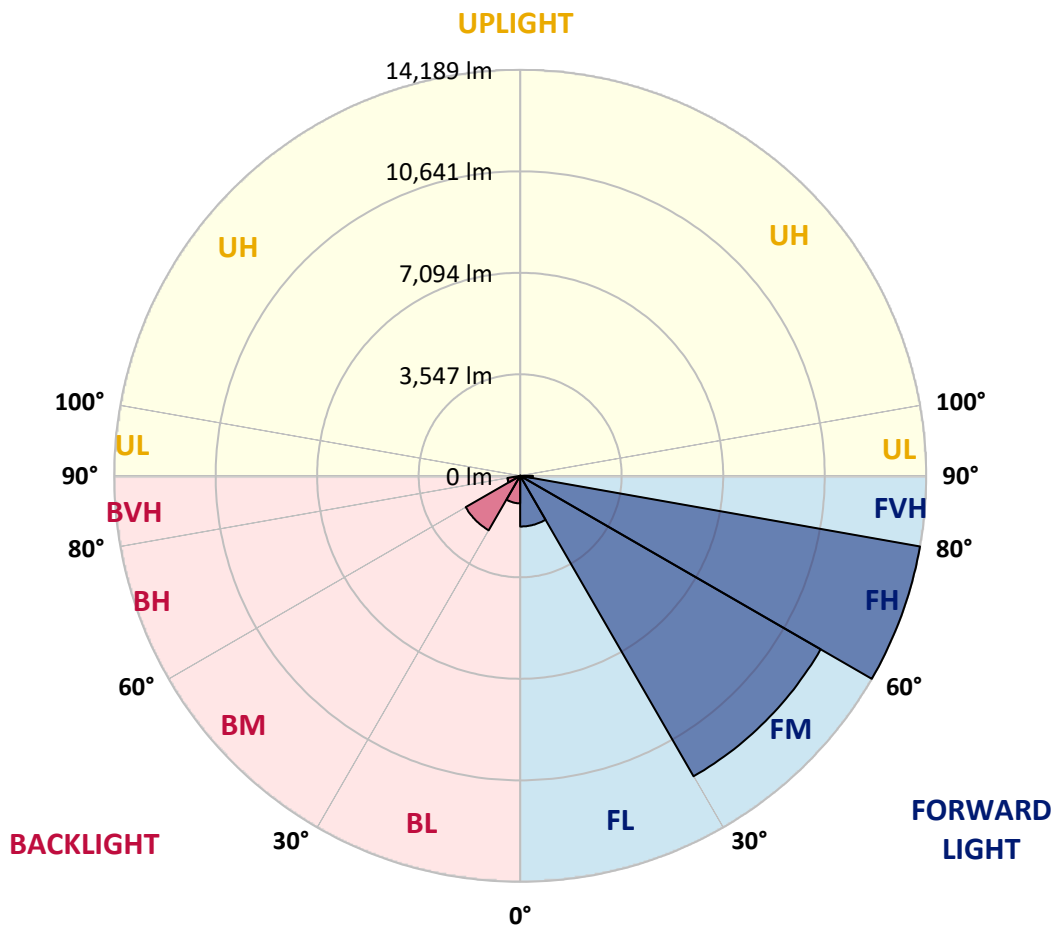
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1772.3	5.5			
FM	(30°-60°)	12124.1	37.7			
FH	(60°-80°)	14188.6	44.1			G5
FVH	(80°-90°)	447.4	1.4			G3/500
BL	(0°-30°)	961.5	3.0	B2/1000		
BM	(30°-60°)	2196.7	6.8	B2/2500		
BH	(60°-80°)	454.1	1.4	B1/500		G1/500
BVH	(80°-90°)	6.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8
2.5°	4452.4	4490.1	4497.2	4509.0	4509.0	4523.1	4546.7	4579.7	4633.8	4662.1	4681.0
5°	4103.8	4132.1	4167.4	4195.7	4249.8	4256.9	4348.8	4438.3	4563.2	4657.4	4723.4
7.5°	3752.8	3785.8	3832.9	3901.2	3971.9	3993.1	4132.1	4282.8	4480.7	4657.4	4768.1
10°	3505.4	3507.8	3550.2	3618.5	3731.6	3757.5	3927.1	4141.5	4388.8	4629.1	4810.5
12.5°	3366.4	3382.9	3401.8	3453.6	3562.0	3578.4	3759.8	4011.9	4297.0	4612.6	4860.0
15°	3366.4	3378.2	3390.0	3415.9	3503.1	3517.2	3677.4	3929.5	4249.8	4619.7	4940.1
17.5°	3401.8	3420.6	3411.2	3441.8	3533.7	3543.1	3684.5	3905.9	4247.5	4664.5	5062.6
20°	3486.6	3500.7	3481.9	3500.7	3592.6	3611.4	3757.5	3950.7	4287.5	4742.2	5215.7
22.5°	3620.9	3627.9	3583.2	3597.3	3691.5	3715.1	3884.7	4077.9	4384.1	4867.1	5420.7
25°	3790.5	3804.6	3736.3	3752.8	3842.3	3870.6	4066.1	4268.7	4537.3	5039.0	5682.2
27.5°	3986.0	3993.1	3934.2	3931.8	4047.3	4087.3	4285.2	4504.3	4742.2	5255.8	6012.0
30°	4209.8	4231.0	4174.5	4165.0	4311.1	4344.1	4539.6	4794.0	5043.8	5580.9	6480.8
32.5°	4386.5	4403.0	4370.0	4393.6	4542.0	4567.9	4848.2	5203.9	5517.3	6042.6	7119.2
35°	4640.9	4650.3	4574.9	4617.4	4787.0	4852.9	5269.9	5778.8	6113.3	6622.1	7953.2
37.5°	5562.0	5562.0	5241.6	5032.0	5194.5	5253.4	5847.1	6502.0	6848.3	7399.5	9003.8
40°	6836.5	6815.3	6346.5	5917.8	5896.5	6012.0	6669.2	7413.7	7797.7	8332.4	10186.4
42.5°	8195.8	8162.8	7524.4	7100.4	7029.7	7069.7	7618.6	8537.4	8928.5	9470.3	11458.6
45°	9402.0	9392.5	8808.3	8238.2	8111.0	8238.2	8803.6	9851.9	10132.3	10702.4	12728.3
47.5°	10412.6	10412.6	9986.2	9614.0	9548.0	9623.4	10407.9	11310.2	11284.2	12014.5	13965.1
50°	11576.4	11566.9	11161.7	11001.6	11069.9	11175.9	12254.8	12846.1	12476.3	13303.2	15070.0
52.5°	12391.5	12448.0	12309.0	12283.1	12631.8	12815.5	14130.0	14349.1	13543.5	14525.8	15896.9
55°	13037.0	13102.9	13263.1	13444.5	14115.9	14356.2	15946.4	15774.4	14436.3	15585.9	16372.8
57.5°	13951.0	13856.8	14104.1	14462.2	15548.2	15838.0	17706.1	17119.5	15154.8	16445.8	16424.6
60°	15060.6	15074.7	15117.1	15569.4	16978.2	17350.4	19440.0	18391.7	15616.5	16973.5	15849.8
62.5°	16394.0	16415.2	16502.3	17197.3	18898.2	19249.2	21286.9	19432.9	15828.6	16825.1	14365.6
65°	16302.1	16391.6	17364.5	19741.5	21817.0	22163.3	23442.5	20163.2	15508.2	15468.1	11696.5
67.5°	14850.9	14997.0	16624.8	22780.5	26217.6	26604.0	26048.0	20306.9	14125.3	12028.7	7630.4
70°	12947.4	12999.3	14956.9	25513.2	31313.2	31704.3	28380.2	18726.2	10718.9	6709.3	3418.3
72.5°	10111.1	10122.8	12419.7	26146.9	34078.9	34100.1	26549.8	13901.5	5764.6	2577.2	1187.3
75°	7222.9	7152.2	8318.3	21204.5	29982.2	30222.5	19904.1	6520.8	2202.7	1217.9	591.3
77.5°	3872.9	3950.7	4706.9	12575.2	20712.1	21122.0	10860.2	1879.9	1121.4	829.2	391.1
80°	1196.7	1262.7	1929.4	5757.6	11731.8	11979.2	4026.0	836.3	782.1	591.3	256.8
82.5°	376.9	391.1	899.9	2419.4	4869.4	4982.5	1166.1	473.5	534.8	391.1	150.8
85°	108.4	110.7	400.5	902.3	1203.8	1227.4	327.5	183.8	306.3	242.6	77.7
87.5°	11.8	37.7	150.8	150.8	106.0	103.7	35.3	40.0	87.2	30.6	14.1
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°	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8	4659.8
2.5°	4669.2	4671.5	4640.9	4589.1	4532.5	4485.4	4426.5	4379.4	4346.4	4337.0	4353.5
5°	4702.2	4685.7	4598.5	4440.7	4252.2	4089.7	3908.3	3764.6	3670.3	3630.3	3644.4
7.5°	4751.6	4704.5	4513.7	4202.7	3842.3	3521.9	3196.8	2944.7	2784.5	2704.4	2716.2
10°	4794.0	4699.8	4372.4	3858.8	3307.5	2822.2	2384.1	2080.2	1910.5	1830.5	1832.8
12.5°	4834.1	4697.5	4188.6	3451.2	2704.4	2110.8	1703.2	1552.5	1505.4	1488.9	1484.1
15°	4909.5	4704.5	3957.7	2984.8	2103.7	1594.9	1446.5	1444.1	1453.5	1448.8	1446.5
17.5°	5013.1	4711.6	3696.2	2490.1	1623.1	1406.4	1399.3	1420.5	1434.7	1427.6	1425.3
20°	5147.4	4739.9	3418.3	2000.1	1394.6	1359.3	1375.8	1394.6	1406.4	1394.6	1392.3
22.5°	5335.9	4789.3	3114.4	1606.7	1321.6	1331.0	1345.2	1366.4	1378.1	1361.6	1359.3
25°	5566.7	4867.1	2815.2	1397.0	1286.3	1298.0	1319.2	1342.8	1356.9	1340.4	1338.1
27.5°	5865.9	4991.9	2539.5	1349.9	1250.9	1258.0	1288.6	1324.0	1342.8	1321.6	1321.6
30°	6299.4	5196.9	2301.6	1371.1	1229.7	1213.2	1255.6	1305.1	1326.3	1307.5	1305.1
32.5°	6874.2	5486.6	2155.6	1404.1	1220.3	1161.4	1201.5	1265.1	1300.4	1288.6	1288.6
35°	7628.1	5927.2	2099.0	1441.7	1213.2	1107.2	1135.5	1203.8	1265.1	1276.8	1276.8
37.5°	8542.1	6539.7	2115.5	1458.2	1192.0	1062.5	1076.6	1135.5	1215.6	1253.3	1262.7
40°	9581.0	7253.5	2209.7	1441.7	1168.5	1024.8	1027.1	1071.9	1142.6	1199.1	1217.9
42.5°	10652.9	8087.4	2384.1	1380.5	1147.3	991.8	984.7	1015.3	1062.5	1102.5	1119.0
45°	11673.0	8944.9	2556.0	1295.7	1121.4	958.8	942.3	954.1	963.5	980.0	989.4
47.5°	12563.4	9548.0	2506.6	1217.9	1086.0	921.1	892.8	888.1	859.9	857.5	855.2
50°	13178.3	9680.0	2226.2	1140.2	1034.2	878.7	834.0	805.7	756.2	732.7	735.0
52.5°	13373.8	9159.3	1818.7	1062.5	949.4	822.2	758.6	713.8	652.6	631.4	629.0
55°	13114.7	8139.3	1453.5	968.2	831.6	746.8	676.1	617.2	567.7	541.8	541.8
57.5°	12481.0	6841.2	1149.6	857.5	706.7	662.0	591.3	532.4	490.0	464.1	459.4
60°	11430.3	5432.5	909.3	725.6	603.1	570.1	497.1	459.4	421.7	391.1	384.0
62.5°	9835.4	3877.6	713.8	574.8	504.1	466.4	424.0	395.8	351.0	308.6	301.5
65°	7675.2	2372.3	551.3	421.7	405.2	386.3	360.4	334.5	280.3	237.9	230.9
67.5°	4841.2	1123.7	393.4	318.0	320.4	311.0	299.2	278.0	237.9	200.2	195.5
70°	2132.0	544.2	259.1	242.6	237.9	237.9	247.4	240.3	202.6	167.3	160.2
72.5°	725.6	292.1	193.2	183.8	172.0	169.6	207.3	200.2	162.5	129.6	122.5
75°	379.3	195.5	141.3	131.9	103.7	124.9	164.9	155.5	115.4	84.8	77.7
77.5°	247.4	139.0	96.6	84.8	58.9	82.5	122.5	108.4	68.3	42.4	37.7
80°	155.5	91.9	56.5	40.0	28.3	44.8	66.0	47.1	25.9	9.4	7.1
82.5°	82.5	47.1	21.2	14.1	11.8	14.1	16.5	11.8	4.7	0.0	0.0
85°	33.0	16.5	7.1	4.7	2.4	0.0	4.7	2.4	0.0	0.0	0.0
87.5°	11.8	2.4	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)