

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: P458839

Luminaire Tested: **GALN-SA3D-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21474 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

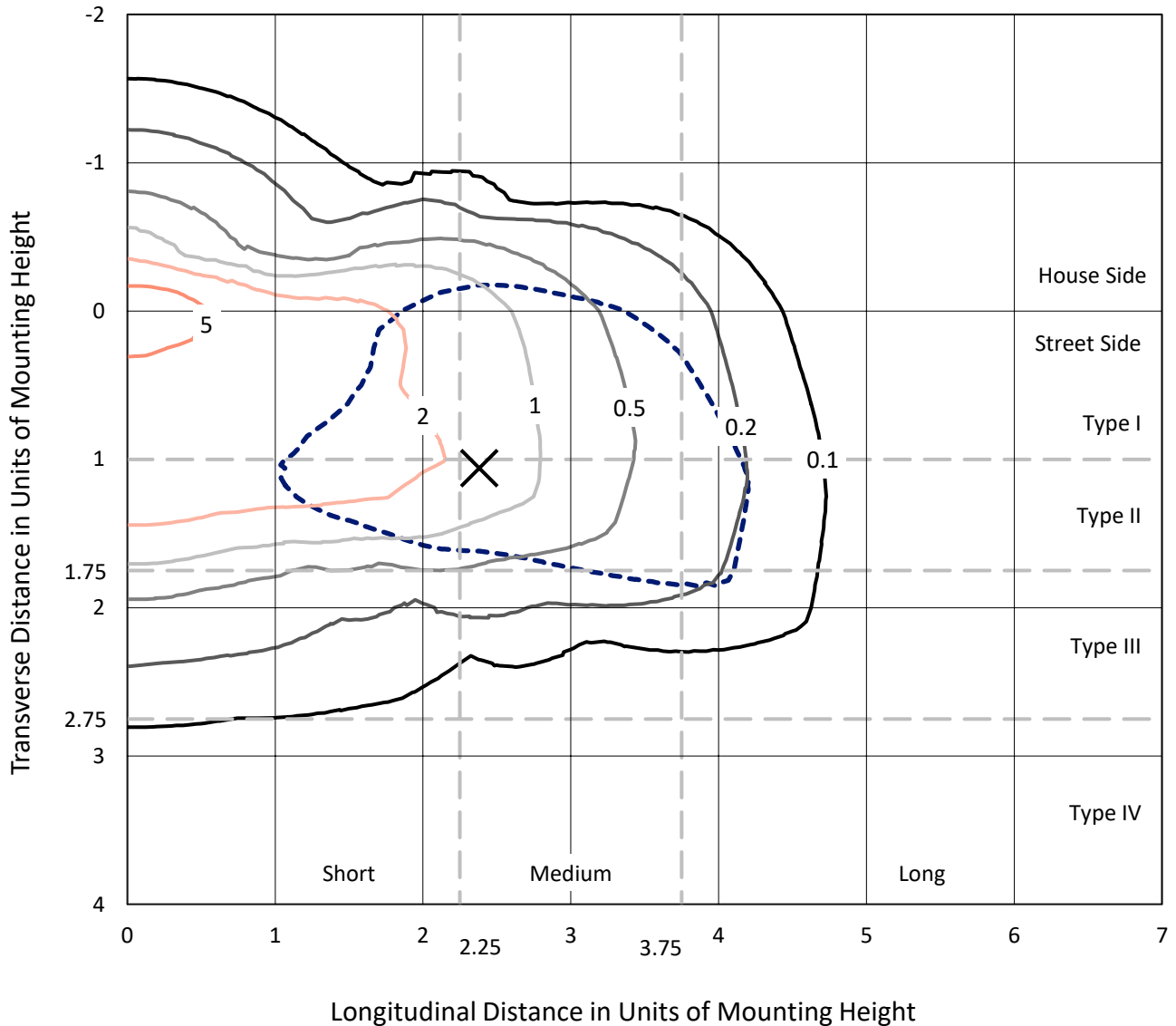
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

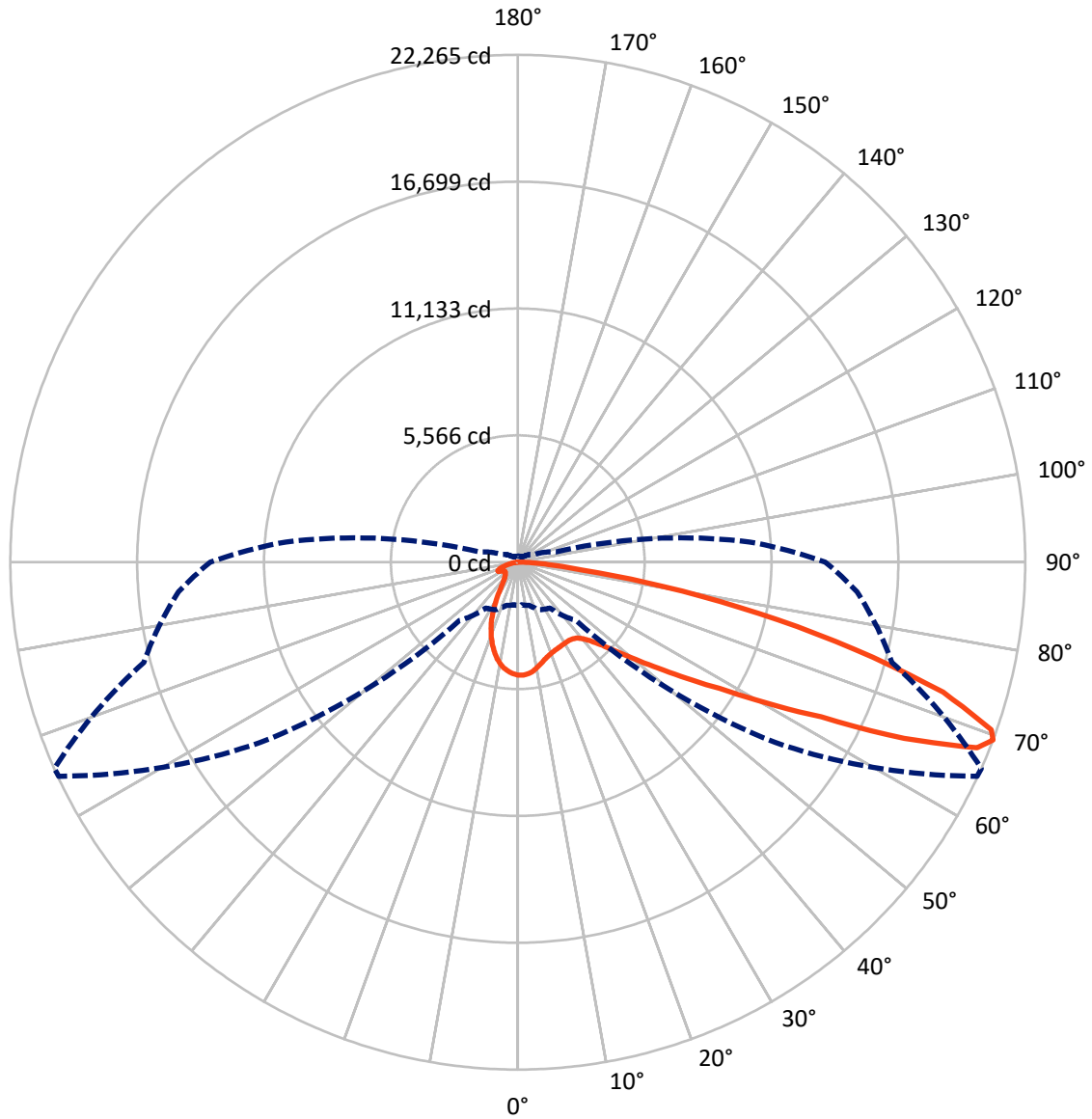
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4038.4	0.0	4038.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17435.5	0.0	17435.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	21474.0	0.0	21474.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.6	2.0
10°-20°	1021.4	4.8
20°-30°	1390.5	6.5
30°-40°	1868.6	8.7
40°-50°	2790.1	13.0
50°-60°	4438.1	20.7
60°-70°	5458.6	25.4
70°-80°	3551.6	16.5
80°-90°	524.5	2.4
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°	21474.0	100.0
0°-180°	21474.0	100.0



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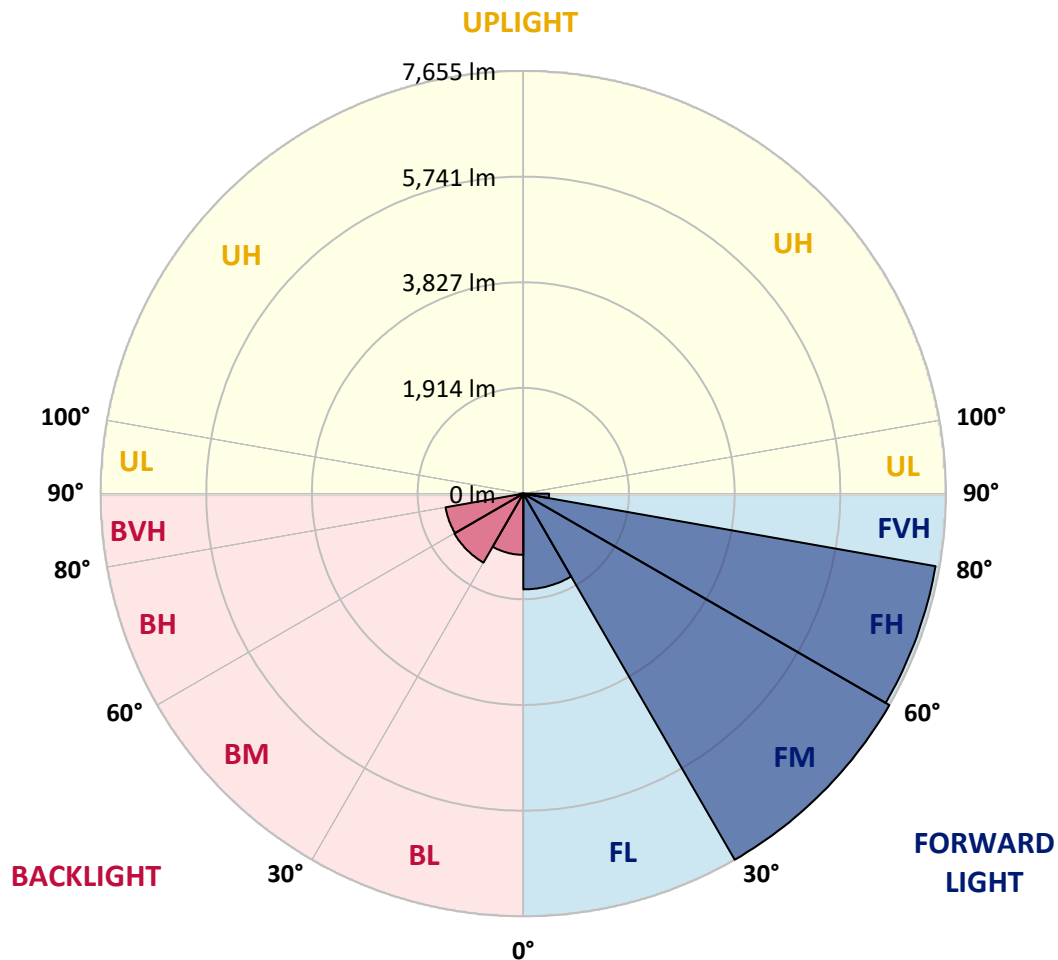
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.0	8.1			
FM (30°-60°)	7654.8	35.6			
FH (60°-80°)	7580.4	35.3			G4/12000
FVH (80°-90°)	466.3	2.2			G3/500
BL (0°-30°)	1108.6	5.2	B3/2500		
BM (30°-60°)	1441.9	6.7	B2/2500		
BH (60°-80°)	1429.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	58.2	0.3			G1/100
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°	66°	75°	85°
0°	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9
2.5°	4785.3	4804.3	4825.8	4849.5	4894.7	4919.7	4937.5	4957.8	4960.1	4970.8	4962.5
5°	4432.1	4454.7	4486.8	4532.0	4599.8	4705.6	4815.1	4904.2	4914.9	4964.9	4979.2
7.5°	4137.2	4150.3	4176.5	4249.0	4345.3	4463.0	4622.4	4803.2	4829.3	4948.2	4989.9
10°	3897.0	3910.1	3941.0	4015.9	4111.0	4258.5	4433.3	4671.2	4692.6	4897.1	4992.2
12.5°	3717.4	3729.3	3762.6	3836.3	3945.7	4083.7	4276.3	4528.5	4559.4	4829.3	4969.6
15°	3580.7	3603.3	3630.6	3691.3	3806.6	3939.8	4126.5	4397.6	4422.6	4758.0	4954.2
17.5°	3522.4	3533.1	3552.1	3608.0	3692.5	3823.3	4011.2	4295.4	4325.1	4708.0	4950.6
20°	3524.8	3535.5	3539.0	3570.0	3630.6	3743.6	3929.1	4214.5	4250.2	4664.0	4956.6
22.5°	3605.6	3606.8	3593.7	3583.0	3606.8	3700.8	3870.8	4153.9	4195.5	4645.0	4961.3
25°	3730.5	3751.9	3732.9	3682.9	3638.9	3684.1	3848.2	4120.6	4159.8	4617.6	4955.4
27.5°	3932.7	3936.2	3920.8	3853.0	3738.8	3705.5	3838.7	4095.6	4128.9	4597.4	4925.6
30°	4203.8	4193.1	4178.8	4103.9	3924.3	3787.6	3858.9	4073.0	4107.5	4567.7	4890.0
32.5°	4478.5	4511.8	4498.7	4410.7	4177.6	3946.9	3924.3	4070.6	4099.2	4545.1	4850.7
35°	4769.9	4785.3	4847.2	4802.0	4562.9	4205.0	4046.8	4107.5	4130.1	4546.3	4823.4
37.5°	4998.2	5039.8	5184.9	5224.1	4999.4	4546.3	4245.4	4212.1	4221.6	4604.6	4834.1
40°	5274.1	5345.4	5532.1	5692.7	5545.2	4989.9	4583.2	4406.0	4417.9	4744.9	4904.2
42.5°	5623.7	5673.6	5924.6	6142.2	6118.4	5576.1	4992.2	4723.5	4729.4	5024.3	5100.5
45°	6032.8	6104.1	6386.0	6713.0	6768.9	6239.7	5583.3	5203.9	5200.3	5458.4	5466.7
47.5°	6556.0	6600.0	6879.5	7236.3	7462.2	7073.3	6300.4	5893.7	5855.6	6091.1	6023.3
50°	7037.7	7106.6	7318.3	7708.4	8270.9	8049.7	7243.4	6787.9	6698.7	6918.7	6804.6
52.5°	7239.8	7312.4	7490.7	7974.7	8964.2	9312.6	8440.9	7854.6	7706.0	7874.8	7833.2
55°	6889.0	6983.0	7149.4	7738.1	9268.6	10769.4	10055.8	9087.8	8979.6	8907.1	8919.0
57.5°	5946.0	6035.2	6259.9	6909.2	8904.7	11826.5	12361.7	10673.0	10441.1	10107.0	10164.0
60°	4526.1	4582.0	4698.5	5418.0	7826.1	12101.2	14980.3	12676.8	12529.4	11302.1	11342.5
62.5°	3214.4	3277.4	3358.3	3717.4	5729.5	11327.1	17030.5	15475.0	14948.2	12540.1	12500.8
65°	2610.3	2567.5	2665.0	2832.7	3361.9	8778.6	17491.9	19358.9	18633.5	14170.4	13625.8
67.5°	2146.5	2101.3	2197.6	2496.1	2556.8	5095.7	15829.4	21880.0	21734.9	15943.5	14768.6
69°	1900.3	1876.5	1961.0	2301.1	2454.5	3618.7	13789.9	22230.8	22265.3	16988.8	14944.6
70°	1712.4	1722.0	1804.0	2202.4	2408.1	2983.7	11786.1	21746.8	22039.4	17510.9	14754.3
72.5°	1260.5	1280.8	1394.9	1824.2	2364.1	2531.8	7013.9	18995.0	19512.3	17541.8	13497.4
75°	881.2	871.7	972.8	1373.5	2233.3	2509.2	4119.4	14690.1	15276.4	15162.2	11341.4
77.5°	576.8	592.2	673.1	970.4	1878.9	2490.2	2685.2	10422.1	10802.6	10140.3	6708.2
80°	406.7	405.5	450.7	662.4	1393.7	2392.7	2198.8	6569.1	6472.8	3985.0	1989.5
82.5°	233.1	249.7	302.1	466.2	932.3	2106.1	2022.8	3141.9	2868.3	1135.7	671.9
85°	129.6	135.6	179.6	281.8	544.7	1586.4	1766.0	1429.4	1348.5	474.5	289.0
87.5°	41.6	45.2	74.9	142.7	247.4	749.2	1000.1	660.0	608.9	171.2	116.5
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°	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9	4958.9
2.5°	4966.1	4980.3	4942.3	4905.4	4872.1	4825.8	4784.1	4749.6	4725.9	4722.3	4710.4
5°	4982.7	4983.9	4911.4	4813.9	4718.7	4614.1	4505.9	4428.6	4356.0	4315.6	4295.4
7.5°	4994.6	4983.9	4853.1	4694.9	4511.8	4321.5	4131.3	3979.0	3861.3	3814.9	3832.8
10°	4989.9	4956.6	4765.1	4511.8	4245.4	3961.2	3687.7	3473.6	3277.4	3176.3	3178.7
12.5°	4963.7	4909.0	4634.3	4306.1	3914.8	3534.3	3115.7	2826.7	2599.6	2465.2	2423.6
15°	4941.1	4846.0	4480.9	4026.6	3540.2	2996.8	2486.6	2129.8	1939.6	1833.7	1832.5
17.5°	4917.3	4785.3	4313.2	3730.5	3109.7	2410.5	1875.4	1603.0	1513.8	1524.5	1506.7
20°	4892.3	4714.0	4138.4	3401.1	2585.3	1798.1	1404.4	1293.8	1318.8	1367.6	1374.7
22.5°	4863.8	4637.9	3950.5	3038.4	2033.5	1353.3	1139.2	1122.6	1186.8	1262.9	1273.6
25°	4819.8	4542.7	3713.9	2659.0	1568.5	1090.5	997.7	1009.6	1072.7	1136.9	1144.0
27.5°	4758.0	4425.0	3474.8	2185.7	1178.5	935.9	912.1	927.6	958.5	997.7	1007.2
30°	4674.7	4291.8	3200.1	1776.7	944.2	858.6	849.1	857.4	875.2	891.9	896.7
32.5°	4591.5	4163.4	2923.0	1360.4	842.0	807.5	797.9	797.9	797.9	800.3	801.5
35°	4514.2	4042.1	2625.7	1059.6	788.4	767.0	753.9	739.7	737.3	729.0	729.0
37.5°	4471.4	3931.5	2309.4	887.1	749.2	733.7	715.9	692.1	679.0	680.2	677.8
40°	4479.7	3858.9	2021.6	789.6	717.1	700.4	673.1	645.7	637.4	637.4	635.0
42.5°	4573.6	3835.2	1745.7	738.5	686.2	667.1	632.7	607.7	602.9	601.7	604.1
45°	4790.1	3893.4	1498.4	705.2	660.0	631.5	597.0	574.4	569.6	569.6	568.4
47.5°	5212.2	4082.5	1321.2	683.8	641.0	604.1	568.4	545.8	537.5	535.1	535.1
50°	5868.7	4492.8	1189.2	664.8	617.2	579.1	542.3	516.1	503.0	501.8	500.7
52.5°	6780.8	5132.6	1138.1	650.5	591.0	553.0	512.5	487.6	470.9	467.4	465.0
55°	7847.5	6025.7	1208.2	639.8	563.7	523.2	481.6	455.5	440.0	432.9	431.7
57.5°	9083.1	7098.3	1474.6	625.5	538.7	491.1	450.7	424.5	407.9	399.6	397.2
60°	10192.6	8200.7	1939.6	617.2	517.3	456.7	415.0	391.2	375.8	367.5	366.3
62.5°	11411.5	9251.9	2494.9	639.8	507.8	423.4	381.7	360.3	347.2	338.9	338.9
65°	12713.7	10304.4	2862.4	715.9	522.1	397.2	346.1	328.2	316.3	310.4	309.2
67.5°	13591.3	10668.3	2358.2	794.4	557.7	368.7	311.6	297.3	290.2	284.2	284.2
69°	13496.2	10208.1	1739.8	814.6	568.4	354.4	292.5	281.8	272.3	269.9	267.6
70°	13195.3	9683.6	1458.0	801.5	560.1	341.3	280.7	267.6	259.2	256.9	255.7
72.5°	11752.8	8398.1	1085.7	696.9	476.9	296.1	248.5	236.6	229.5	225.9	225.9
75°	9764.5	6864.0	847.9	554.2	373.4	249.7	212.9	203.4	197.4	195.0	193.8
77.5°	5472.7	3832.8	608.9	434.1	283.0	202.2	178.4	170.1	164.1	161.7	161.7
80°	1524.5	1095.2	357.9	286.6	192.6	153.4	141.5	135.6	127.2	121.3	124.9
82.5°	574.4	474.5	204.5	172.4	122.5	102.3	98.7	93.9	90.4	82.1	82.1
85°	279.5	230.7	130.8	91.6	67.8	53.5	51.1	48.8	46.4	40.4	41.6
87.5°	96.3	102.3	57.1	33.3	20.2	13.1	10.7	5.9	5.9	5.9	5.9
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)