

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: P452927

Luminaire Tested: **GALN-SA3D-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17963 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 - G4

Input Watts (W): 184
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

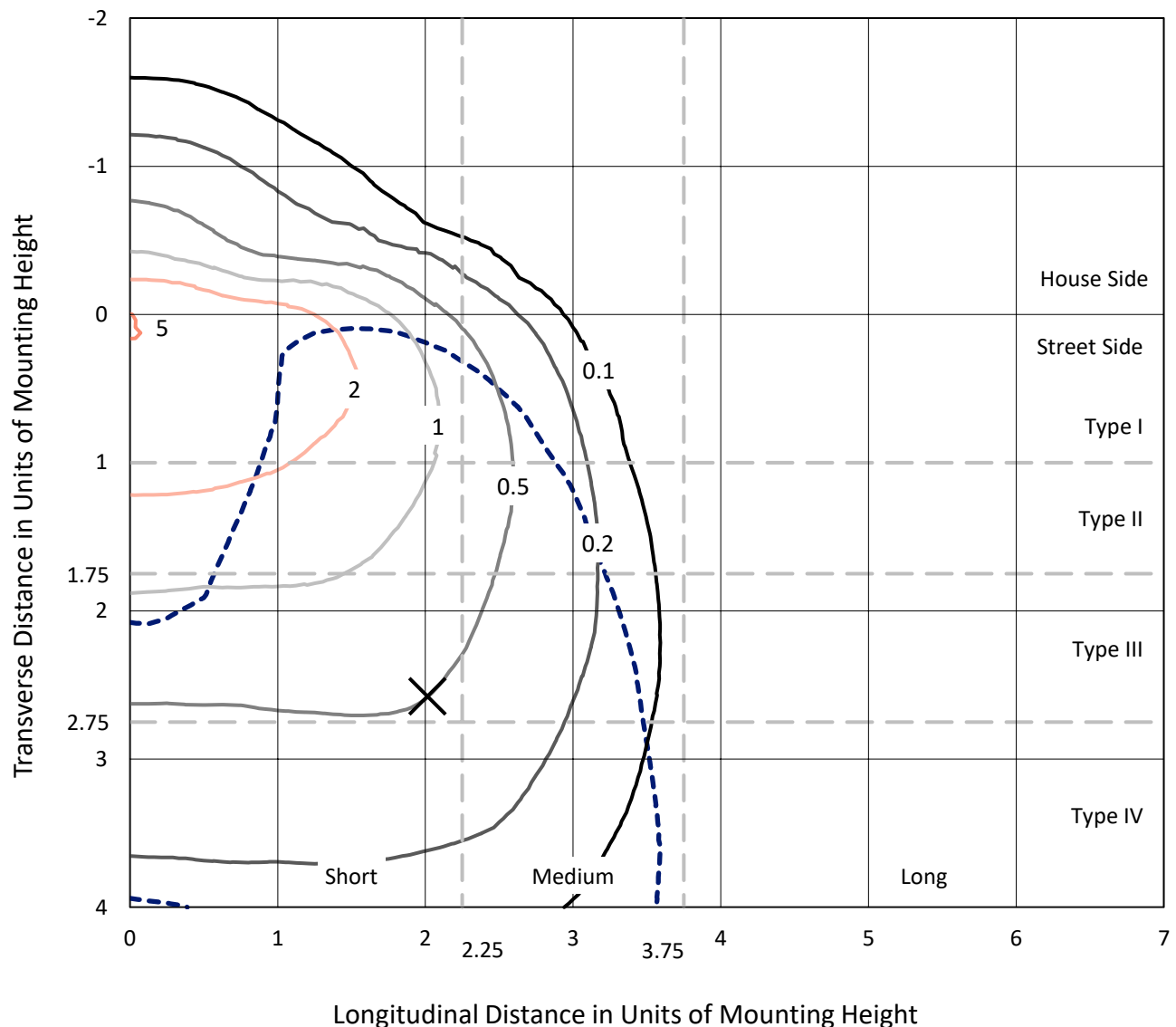


REPORT NUMBER: P452927

CATALOG NUMBER: GALN-SA3D-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

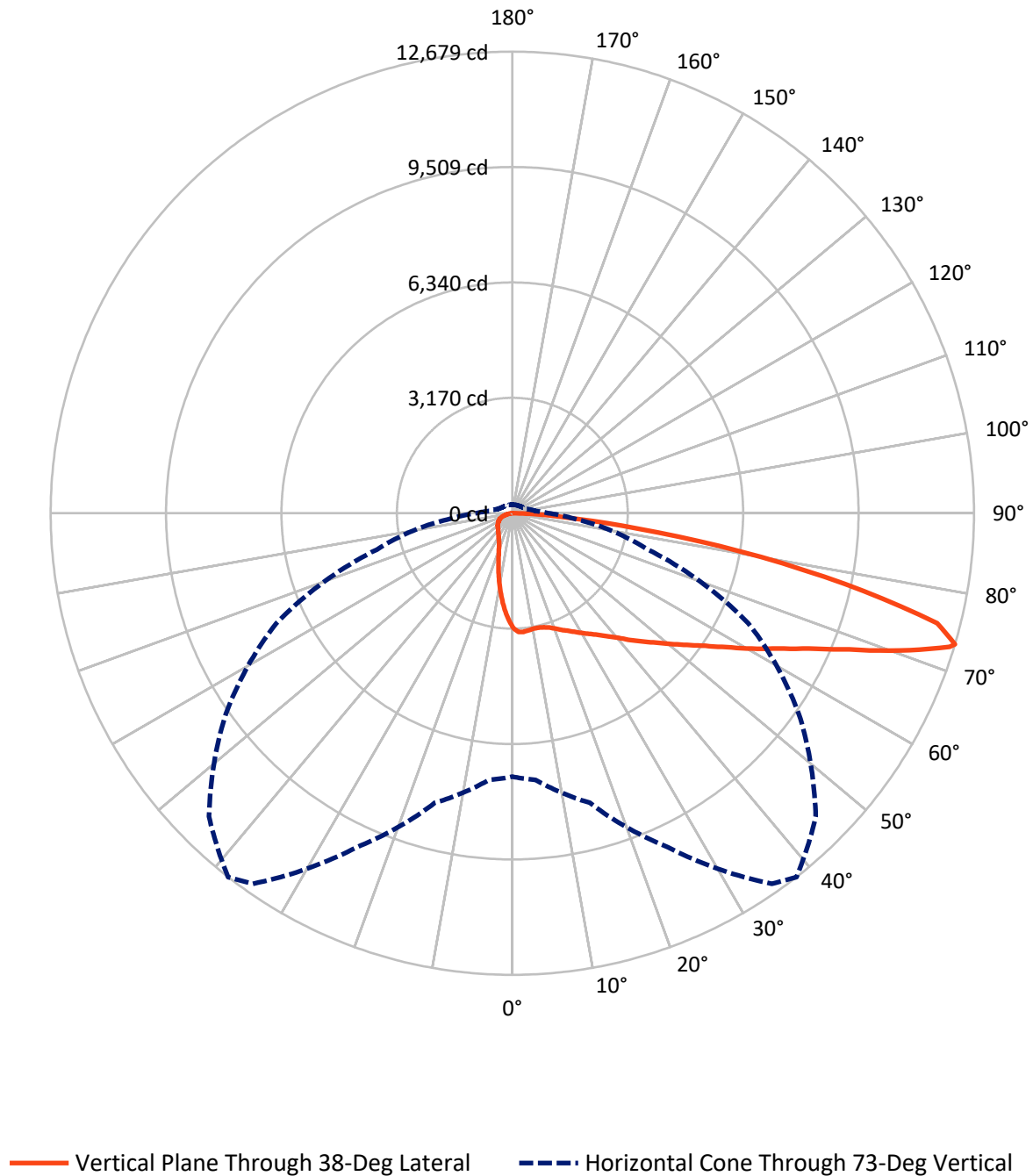


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P452927

CATALOG NUMBER: GALN-SA3D-830-U-SL4

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2414.8	0.0	2414.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15548.2	0.0	15548.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	17963.0	0.0	17963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.5	1.5
10°-20°	706.4	3.9
20°-30°	1100.0	6.1
30°-40°	1613.4	9.0
40°-50°	2393.3	13.3
50°-60°	3390.9	18.9
60°-70°	4301.4	23.9
70°-80°	3580.6	19.9
80°-90°	601.6	3.3
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°	17963.0	100.0
0°-180°	17963.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452927

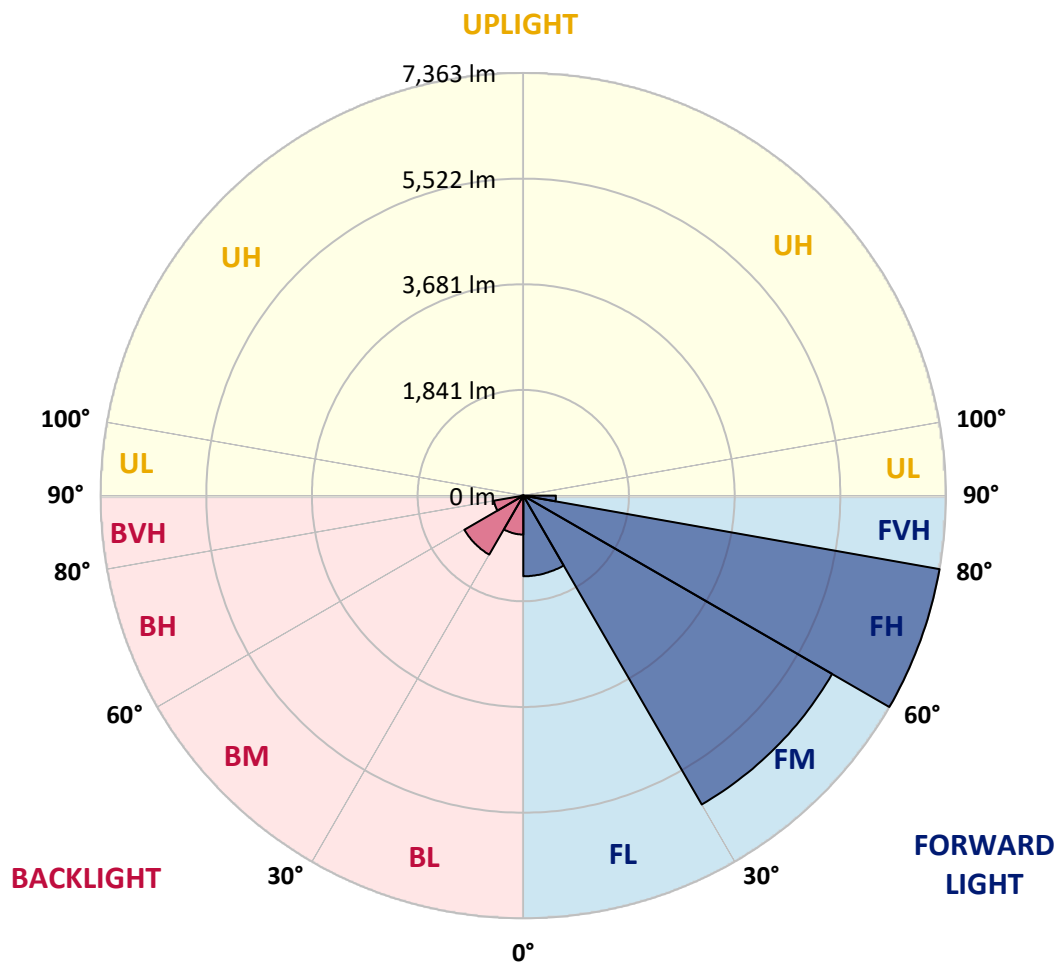
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1404.2	7.8			
FM	(30°-60°)	6212.1	34.6			
FH	(60°-80°)	7363.0	41.0			G3/7500
FVH	(80°-90°)	569.0	3.2			G4/750
BL	(0°-30°)	677.6	3.8	B2/1000		
BM	(30°-60°)	1185.5	6.6	B2/2500		
BH	(60°-80°)	519.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	32.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P452927

CATALOG NUMBER: GALN-SA3D-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8
2.5°	3282.6	3298.8	3290.7	3279.6	3272.5	3265.3	3255.2	3225.8	3202.5	3177.1	3137.5
5°	3306.9	3317.1	3310.0	3295.8	3279.6	3272.5	3253.2	3214.6	3177.1	3134.5	3075.7
7.5°	3292.7	3296.8	3288.7	3271.4	3257.2	3244.0	3221.7	3179.1	3133.5	3081.7	3004.6
10°	3242.0	3257.2	3257.2	3243.0	3228.8	3221.7	3199.4	3158.8	3117.2	3058.4	2967.1
12.5°	3200.4	3216.7	3229.8	3225.8	3224.8	3224.8	3207.5	3177.1	3128.4	3072.6	2964.1
15°	3172.0	3191.3	3219.7	3235.9	3246.1	3249.1	3242.0	3215.6	3165.9	3101.0	2976.2
17.5°	3165.9	3189.3	3241.0	3276.5	3302.9	3301.9	3299.8	3263.3	3208.5	3141.6	2991.5
20°	3193.3	3223.8	3295.8	3351.6	3390.1	3383.0	3371.9	3324.2	3260.3	3185.2	3005.7
22.5°	3275.5	3306.9	3386.1	3446.9	3484.5	3484.5	3451.0	3388.1	3320.1	3235.9	3024.9
25°	3393.2	3427.7	3511.8	3573.7	3591.0	3577.8	3544.3	3468.2	3390.1	3309.0	3065.5
27.5°	3537.2	3578.8	3656.9	3708.6	3703.6	3693.4	3658.9	3561.6	3483.4	3409.4	3134.5
30°	3716.8	3747.2	3828.3	3840.5	3822.3	3820.2	3771.5	3674.2	3601.1	3544.3	3232.9
32.5°	3886.2	3913.6	3978.5	3983.5	3951.1	3955.1	3909.5	3820.2	3778.6	3758.3	3398.2
35°	4065.7	4079.9	4135.7	4129.6	4108.3	4105.3	4087.0	4001.8	4015.0	4051.5	3632.6
37.5°	4215.8	4244.2	4275.7	4280.8	4279.7	4289.9	4302.1	4261.5	4337.6	4452.2	3939.9
40°	4353.8	4378.1	4424.8	4441.0	4480.6	4500.9	4542.5	4543.5	4719.0	4907.7	4318.3
42.5°	4447.1	4488.7	4576.0	4605.4	4701.7	4762.6	4824.5	4890.4	5145.0	5387.5	4764.6
45°	4528.3	4583.1	4728.1	4819.4	4950.3	5024.3	5155.2	5293.1	5659.3	5976.8	5218.1
47.5°	4651.0	4699.7	4866.1	5027.4	5225.2	5310.4	5506.2	5712.1	6190.9	6538.8	5652.2
50°	4821.4	4850.9	5020.3	5283.0	5535.6	5645.1	5903.8	6201.0	6758.9	7093.7	6033.6
52.5°	5039.5	5051.7	5186.6	5536.6	5869.3	6005.2	6348.1	6695.0	7256.0	7575.5	6335.9
55°	5297.2	5276.9	5382.4	5805.4	6250.7	6428.2	6796.5	7195.1	7814.9	7965.1	6556.1
57.5°	5551.8	5520.4	5604.6	6132.0	6721.4	6935.4	7364.5	7710.4	8314.0	8329.2	6710.2
60°	5821.6	5798.3	5898.7	6515.5	7298.6	7552.2	7948.8	8245.0	8796.9	8582.8	6734.6
62.5°	6098.6	6061.0	6204.1	6946.6	7948.8	8179.1	8563.6	8813.1	9270.6	8677.2	6500.3
65°	6367.4	6350.1	6571.3	7458.9	8689.3	8951.1	9324.4	9493.8	9650.0	8535.2	5919.0
67.5°	6653.4	6687.9	7040.9	8142.6	9655.0	9983.7	10386.4	10227.2	9758.5	7862.6	4984.8
70°	7089.6	7111.9	7657.7	9038.3	10899.7	11296.3	11491.1	10487.9	9235.1	6585.5	3747.2
72.5°	7277.3	7375.7	8208.5	9978.6	12313.8	12556.2	11862.4	9906.6	7693.2	4473.5	1968.9
73°	7235.7	7353.4	8233.9	10121.7	12424.4	12679.0	11783.3	9607.4	7151.5	3852.7	1688.0
75°	6717.3	6862.4	7904.2	10002.0	12209.3	12057.1	10511.2	8188.2	4832.6	1751.9	768.9
77.5°	5300.2	5341.8	6262.9	8076.6	9614.5	9332.5	7866.7	5117.6	1974.0	651.2	436.2
80°	2658.7	2811.9	3530.1	4626.7	6429.3	6336.9	4965.5	2420.4	822.7	382.4	289.1
82.5°	1279.2	1387.7	1719.4	2256.0	3552.4	3468.2	2458.9	1322.8	522.4	223.2	170.4
85°	823.7	904.8	1094.5	1076.3	1460.7	1394.8	1104.7	1001.2	309.4	116.7	118.7
87.5°	543.7	595.5	714.1	571.1	531.5	480.8	487.9	564.0	60.9	44.6	16.2
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°	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8	3155.8
2.5°	3121.3	3108.1	3064.5	3021.9	2981.3	2942.8	2917.4	2883.9	2861.6	2867.7	2876.8
5°	3043.2	3013.8	2936.7	2861.6	2790.6	2706.4	2638.5	2583.7	2542.1	2526.9	2523.8
7.5°	2961.0	2911.3	2800.8	2671.9	2551.2	2446.7	2326.0	2266.2	2196.2	2171.8	2163.7
10°	2911.3	2844.4	2689.2	2509.6	2328.0	2154.6	2023.7	1917.2	1820.8	1802.6	1793.5
12.5°	2897.1	2808.9	2599.9	2368.6	2127.2	1914.2	1720.4	1580.4	1487.1	1465.8	1434.4
15°	2889.0	2779.5	2516.7	2226.6	1920.3	1660.6	1456.7	1293.4	1208.1	1151.3	1152.4
17.5°	2881.9	2746.0	2423.4	2071.4	1741.7	1442.5	1217.3	1070.2	992.1	961.7	958.6
20°	2871.8	2706.4	2315.9	1908.1	1537.8	1243.7	1039.8	930.2	877.5	852.1	851.1
22.5°	2867.7	2667.9	2210.4	1741.7	1357.3	1090.5	922.1	845.0	811.5	794.3	794.3
25°	2877.8	2640.5	2099.8	1583.5	1197.0	959.6	840.9	788.2	768.9	759.8	756.7
27.5°	2909.3	2628.3	1990.3	1425.2	1049.9	870.4	786.2	749.6	735.4	728.3	729.4
30°	2969.1	2627.3	1882.7	1269.0	940.3	802.4	742.5	717.2	706.0	702.0	700.9
32.5°	3065.5	2649.6	1777.2	1140.2	848.0	745.6	702.0	683.7	678.6	675.6	674.6
35°	3228.8	2712.5	1672.7	1022.5	777.0	694.9	663.4	654.3	647.2	650.2	651.2
37.5°	3449.0	2821.0	1573.3	930.2	723.3	657.3	631.0	622.8	618.8	621.8	624.9
40°	3744.1	2977.3	1490.2	856.2	684.7	625.9	602.6	595.5	591.4	596.5	597.5
42.5°	4069.8	3157.8	1421.2	798.3	653.3	599.5	577.2	569.1	566.0	569.1	570.1
45°	4404.5	3367.8	1385.7	756.7	626.9	580.2	556.9	547.8	540.7	538.6	541.7
47.5°	4734.2	3550.4	1384.7	731.4	605.6	563.0	537.6	527.5	518.4	513.3	512.3
50°	5003.0	3695.5	1409.0	720.2	587.3	543.7	518.4	508.2	496.0	485.9	487.9
52.5°	5205.9	3789.8	1420.2	715.2	577.2	523.4	498.1	488.9	474.7	461.6	461.6
55°	5336.8	3812.1	1392.8	710.1	569.1	502.1	474.7	466.6	452.4	439.2	439.2
57.5°	5381.4	3743.1	1294.4	697.9	561.0	483.9	451.4	444.3	433.1	420.0	417.9
60°	5277.9	3509.8	1121.9	661.4	544.7	464.6	426.0	423.0	418.9	407.8	406.8
62.5°	4879.3	3014.8	934.3	613.7	517.3	444.3	402.7	407.8	410.8	404.7	403.7
65°	4215.8	2447.7	798.3	547.8	480.8	415.9	377.4	390.5	398.7	398.7	396.6
67.5°	3419.5	1879.7	672.5	491.0	435.2	377.4	349.0	359.1	365.2	363.2	368.2
70°	2430.5	1273.1	547.8	426.0	377.4	333.7	312.4	312.4	308.4	306.3	306.3
72.5°	1178.7	727.3	444.3	356.1	321.6	285.0	267.8	260.7	252.6	251.6	246.5
73°	985.0	652.3	424.0	342.9	308.4	277.9	258.7	247.5	242.4	238.4	237.4
75°	599.5	495.0	354.0	289.1	262.7	239.4	222.2	212.0	206.9	203.9	202.9
77.5°	394.6	369.2	274.9	221.1	200.9	186.6	179.5	169.4	166.4	162.3	162.3
80°	294.2	282.0	196.8	156.2	144.0	131.9	129.8	127.8	119.7	114.6	112.6
82.5°	189.7	200.9	133.9	104.5	91.3	81.2	82.2	85.2	77.1	70.0	68.0
85°	134.9	145.1	81.2	47.7	38.5	33.5	37.5	33.5	34.5	27.4	22.3
87.5°	22.3	38.5	14.2	6.1	3.0	2.0	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)