

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: P452693

Luminaire Tested: **GALN-SA3C-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16530 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160
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

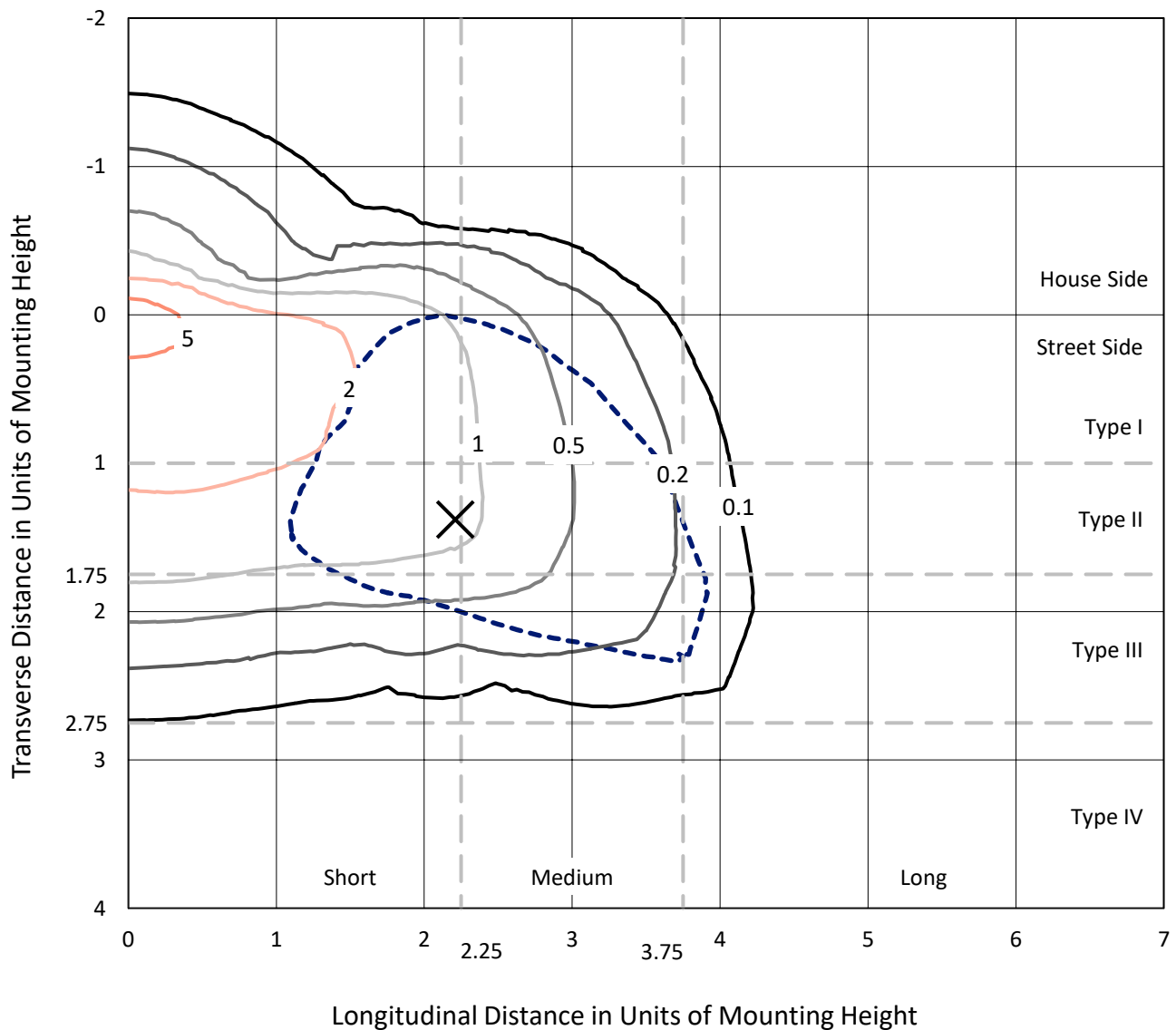


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

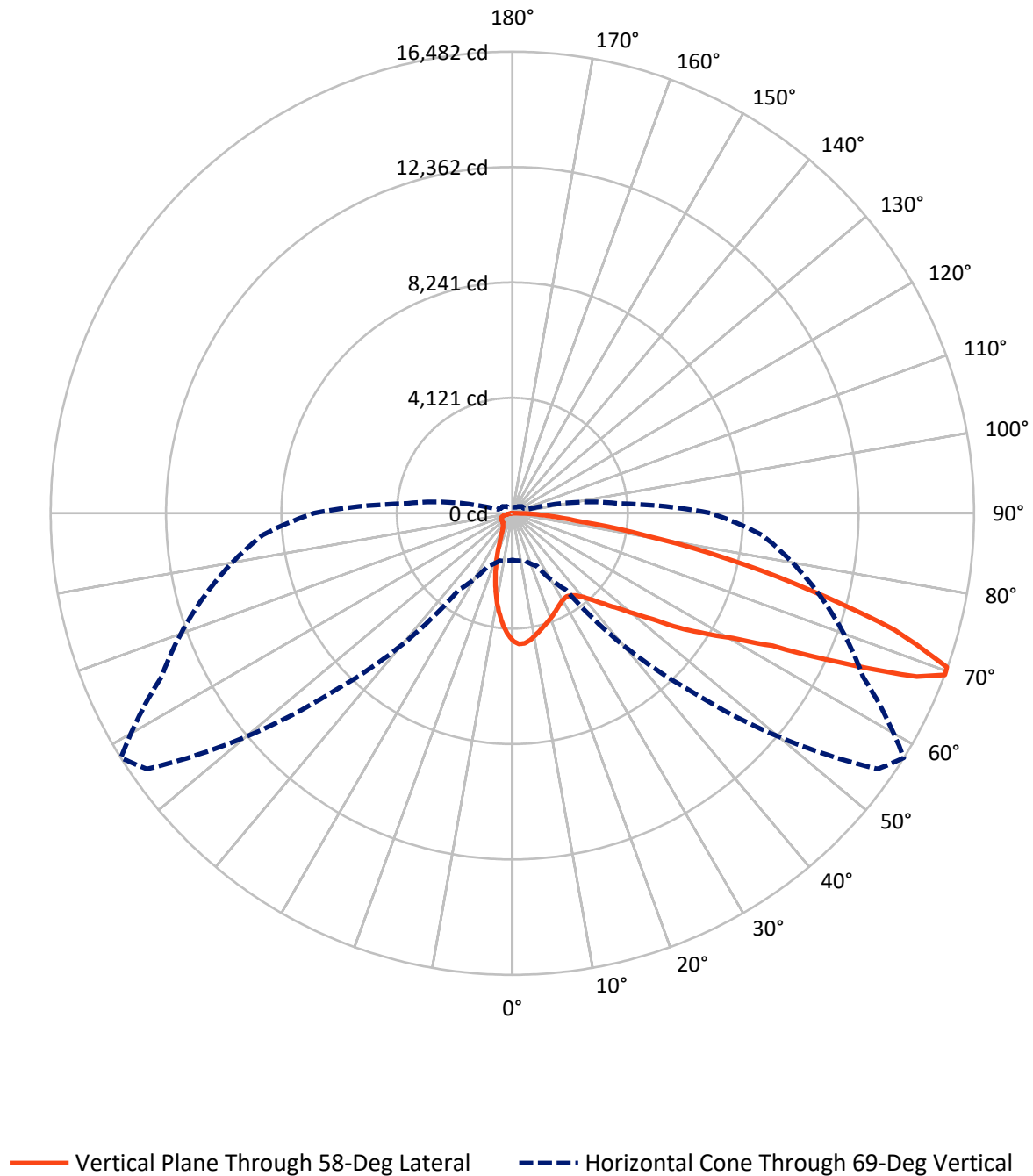


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2422.5	0.0	2422.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14107.5	0.0	14107.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	16530.0	0.0	16530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	2.3
10°-20°	851.8	5.2
20°-30°	1100.6	6.7
30°-40°	1429.4	8.6
40°-50°	2078.2	12.6
50°-60°	3316.1	20.1
60°-70°	4429.9	26.8
70°-80°	2553.6	15.4
80°-90°	382.5	2.3
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°	16530.0	100.0
0°-180°	16530.0	100.0

Coefficient of Utilization



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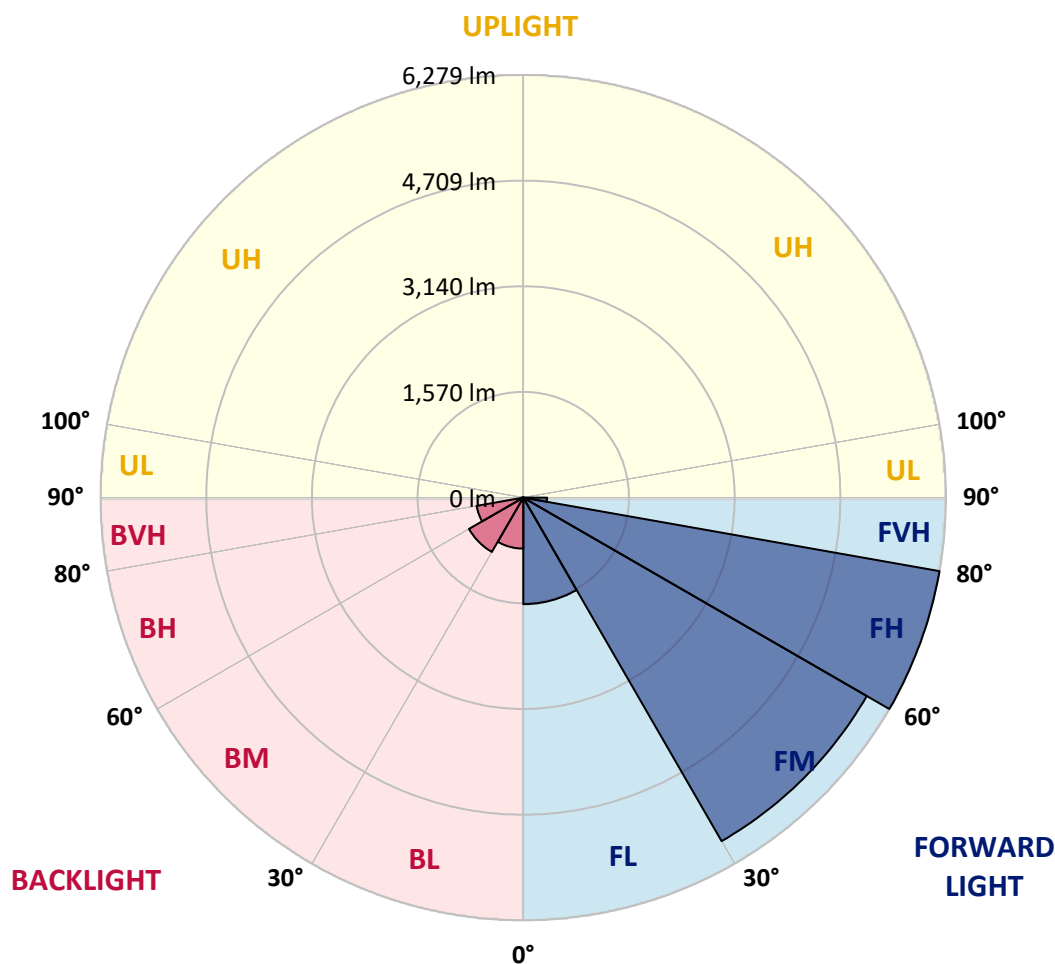
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1583.2	9.6			
FM	(30°-60°)	5892.1	35.6			
FH	(60°-80°)	6279.1	38.0			G3/7500
FVH	(80°-90°)	353.2	2.1			G3/500
BL	(0°-30°)	757.2	4.6	B2/1000		
BM	(30°-60°)	931.6	5.6	B1/1000		
BH	(60°-80°)	704.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	29.3	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9
2.5°	4737.6	4750.5	4746.8	4742.2	4734.8	4714.5	4681.3	4675.8	4654.6	4609.4	4553.2
5°	4664.7	4675.8	4676.7	4683.2	4692.4	4688.7	4664.7	4662.0	4630.6	4569.8	4475.7
7.5°	4414.9	4429.6	4461.9	4497.9	4530.1	4560.5	4567.9	4572.5	4553.2	4483.1	4357.7
10°	4133.7	4148.5	4163.2	4216.7	4296.0	4371.6	4434.3	4442.5	4447.2	4382.6	4229.6
12.5°	3822.1	3852.5	3883.9	3963.2	4069.2	4188.1	4298.7	4316.3	4347.6	4298.7	4119.0
15°	3557.5	3588.9	3634.1	3705.0	3833.2	4004.7	4160.5	4189.0	4250.8	4225.9	4015.7
17.5°	3374.1	3385.1	3416.5	3497.6	3635.9	3816.6	4024.9	4082.1	4180.7	4174.3	3927.2
20°	3229.4	3243.2	3262.5	3312.3	3456.1	3647.0	3898.6	3972.4	4106.1	4128.2	3839.6
22.5°	3168.5	3178.6	3175.9	3202.6	3300.3	3492.1	3770.5	3858.1	4039.7	4096.8	3758.5
25°	3172.2	3181.4	3167.6	3161.1	3219.2	3355.6	3636.8	3748.4	3986.2	4075.6	3684.8
27.5°	3234.0	3240.4	3214.6	3188.8	3193.4	3270.8	3526.2	3649.7	3941.0	4084.9	3623.0
30°	3316.9	3328.9	3312.3	3281.0	3246.9	3250.6	3455.2	3576.9	3919.8	4117.1	3593.5
32.5°	3423.9	3434.9	3427.6	3402.7	3358.4	3309.6	3437.7	3550.2	3921.7	4182.6	3587.0
35°	3536.3	3558.5	3570.4	3568.6	3532.7	3447.8	3506.8	3599.9	3965.9	4292.3	3624.8
37.5°	3663.6	3682.0	3733.6	3766.8	3733.6	3635.0	3662.6	3727.2	4063.7	4450.8	3707.8
40°	3787.1	3814.7	3890.3	3993.6	3980.7	3894.0	3900.5	3942.9	4236.0	4686.8	3870.1
42.5°	3916.2	3949.3	4081.2	4234.2	4264.6	4197.3	4214.8	4252.6	4481.3	5014.1	4148.5
45°	4082.1	4121.7	4284.0	4474.8	4594.7	4553.2	4603.0	4621.4	4809.5	5440.0	4515.4
47.5°	4296.0	4342.1	4542.1	4780.0	4949.6	4987.4	5074.0	5063.0	5216.0	5944.3	4991.1
50°	4656.4	4682.2	4871.2	5113.7	5346.9	5517.5	5611.5	5629.0	5720.3	6434.7	5523.0
52.5°	5085.1	5108.1	5244.6	5456.6	5748.9	6110.2	6342.5	6285.4	6307.5	7032.1	6145.3
55°	5567.2	5606.0	5692.6	5833.7	6212.6	6744.5	7211.0	7224.8	6979.6	7603.7	6741.7
57.5°	5940.6	6006.1	6154.5	6355.5	6835.8	7449.7	8076.6	8085.8	7772.4	8214.0	7399.9
60°	5752.5	5830.0	6169.2	6658.8	7653.5	8680.4	9111.0	9058.4	8544.0	8909.1	8202.9
62.5°	4941.3	4955.1	5448.3	6213.5	7905.1	10326.9	10650.5	10428.3	9573.7	9790.4	9018.8
65°	3198.0	3288.4	3679.2	4751.4	7078.2	11240.5	13347.9	12834.4	11017.4	10790.6	9701.9
67.5°	2018.9	1995.9	2158.1	2713.1	4868.5	10435.7	15649.9	15568.7	12905.4	11422.1	9538.7
69°	1674.1	1700.0	1755.3	2079.8	3350.1	8910.0	15921.8	16482.3	13820.9	11372.3	8945.9
70°	1518.3	1530.3	1588.4	1843.8	2585.0	7462.6	15475.6	16457.4	14180.4	11164.0	8516.3
72.5°	1204.9	1204.0	1303.5	1534.0	1932.3	4260.0	12707.2	14288.2	13778.4	10194.2	7036.7
75°	915.4	930.2	1039.9	1298.0	1780.2	2327.8	8867.6	11003.6	11004.5	8051.7	4390.9
77.5°	660.1	669.3	797.4	1089.7	1676.9	1887.1	5906.5	7892.2	7419.3	3689.4	1380.1
80°	432.4	437.9	535.6	862.9	1511.9	1780.2	3502.2	4830.7	3499.5	979.0	456.3
82.5°	236.9	264.6	327.3	558.7	1213.2	1644.6	2128.6	2444.8	1312.8	436.1	237.8
85°	118.9	126.3	184.4	326.3	792.8	1360.7	1482.4	1402.2	677.6	216.6	123.5
87.5°	35.0	44.3	76.5	126.3	321.7	708.9	825.1	740.3	260.9	78.4	25.8
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°	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9	4567.9
2.5°	4530.1	4513.5	4439.8	4373.4	4312.6	4248.0	4193.6	4145.7	4150.3	4151.2	4102.4
5°	4426.9	4389.1	4249.0	4118.0	4007.4	3867.3	3747.4	3670.0	3631.3	3579.7	3598.1
7.5°	4286.8	4213.9	4019.4	3801.8	3598.1	3416.5	3219.2	3083.7	2997.0	2913.1	2924.2
10°	4142.0	4024.9	3741.9	3454.3	3190.6	2900.2	2648.6	2432.8	2272.4	2212.5	2172.9
12.5°	3993.6	3839.6	3480.1	3097.5	2733.4	2385.8	2029.1	1797.7	1620.7	1526.6	1538.6
15°	3858.1	3670.9	3207.2	2740.8	2267.8	1853.9	1498.1	1277.7	1154.2	1128.4	1143.1
17.5°	3732.7	3487.5	2951.9	2394.1	1841.9	1390.2	1125.6	1001.2	951.4	937.6	936.6
20°	3603.6	3331.7	2665.2	2023.5	1435.4	1077.7	923.7	865.6	856.4	862.0	862.9
22.5°	3472.7	3139.0	2370.2	1655.7	1143.1	881.3	807.6	791.9	799.3	812.2	814.0
25°	3352.0	2969.4	2086.2	1333.0	912.7	774.4	738.4	738.4	755.0	774.4	775.3
27.5°	3252.4	2805.3	1803.2	1058.3	764.2	696.9	685.0	691.4	714.5	729.2	730.1
30°	3170.4	2652.3	1535.9	848.1	672.1	635.2	632.4	643.5	660.1	673.9	674.8
32.5°	3108.6	2517.7	1286.0	712.6	608.4	588.2	587.2	595.5	604.8	608.4	612.1
35°	3084.6	2406.1	1057.4	626.9	566.0	553.1	553.1	552.2	555.9	557.7	559.6
37.5°	3104.0	2320.4	880.4	571.6	534.7	525.5	519.9	514.4	512.6	512.6	513.5
40°	3186.0	2275.2	748.6	535.6	512.6	498.7	488.6	482.1	475.7	477.5	479.4
42.5°	3360.3	2283.5	659.1	511.6	493.2	473.8	459.1	451.7	447.1	452.6	451.7
45°	3637.7	2366.5	602.0	495.1	473.8	449.0	435.1	427.8	427.8	436.1	438.8
47.5°	4025.9	2525.0	571.6	482.1	459.1	429.6	415.8	410.2	412.1	425.9	426.8
50°	4499.7	2800.7	566.0	475.7	451.7	415.8	400.1	394.6	399.2	413.9	415.8
52.5°	5022.4	3155.6	592.8	476.6	445.3	407.5	387.2	378.9	383.5	395.5	399.2
55°	5641.9	3599.9	661.9	480.3	436.1	402.9	378.0	359.5	365.1	373.4	374.3
57.5°	6274.3	4160.5	783.6	481.2	428.7	394.6	362.3	338.3	338.3	343.9	346.6
60°	7046.9	4770.7	944.0	482.1	429.6	382.6	341.1	314.4	310.7	313.4	314.4
62.5°	7813.9	5281.5	970.7	479.4	438.8	370.6	318.0	290.4	283.9	283.0	281.2
65°	8152.2	5186.5	795.6	466.5	449.0	363.2	299.6	267.3	256.3	252.6	252.6
67.5°	7600.9	4387.2	598.3	449.0	442.5	355.8	282.1	248.0	235.1	227.7	227.7
69°	7082.8	3902.3	537.5	437.0	425.9	343.9	271.0	237.8	222.2	213.9	211.1
70°	6682.7	3568.6	511.6	426.8	410.2	330.0	262.7	230.5	213.0	203.7	201.9
72.5°	5333.1	2799.8	448.0	388.1	349.4	277.5	233.2	207.4	190.8	180.7	177.9
75°	3073.6	1517.4	371.5	337.4	281.2	215.7	197.3	180.7	167.8	158.6	155.8
77.5°	945.9	586.3	269.2	266.4	206.5	166.9	157.6	151.2	142.0	131.8	130.0
80°	398.3	298.7	182.5	179.8	137.4	116.2	113.4	112.5	108.8	100.5	97.7
82.5°	218.5	168.7	127.2	110.6	83.0	67.3	70.1	71.0	68.2	59.9	54.4
85°	106.9	92.2	61.8	49.8	37.8	24.0	23.0	27.7	25.8	18.4	20.3
87.5°	21.2	25.8	16.6	7.4	3.7	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)