

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: P452923

Luminaire Tested: **GALN-SA3D-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452923
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-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 18318 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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

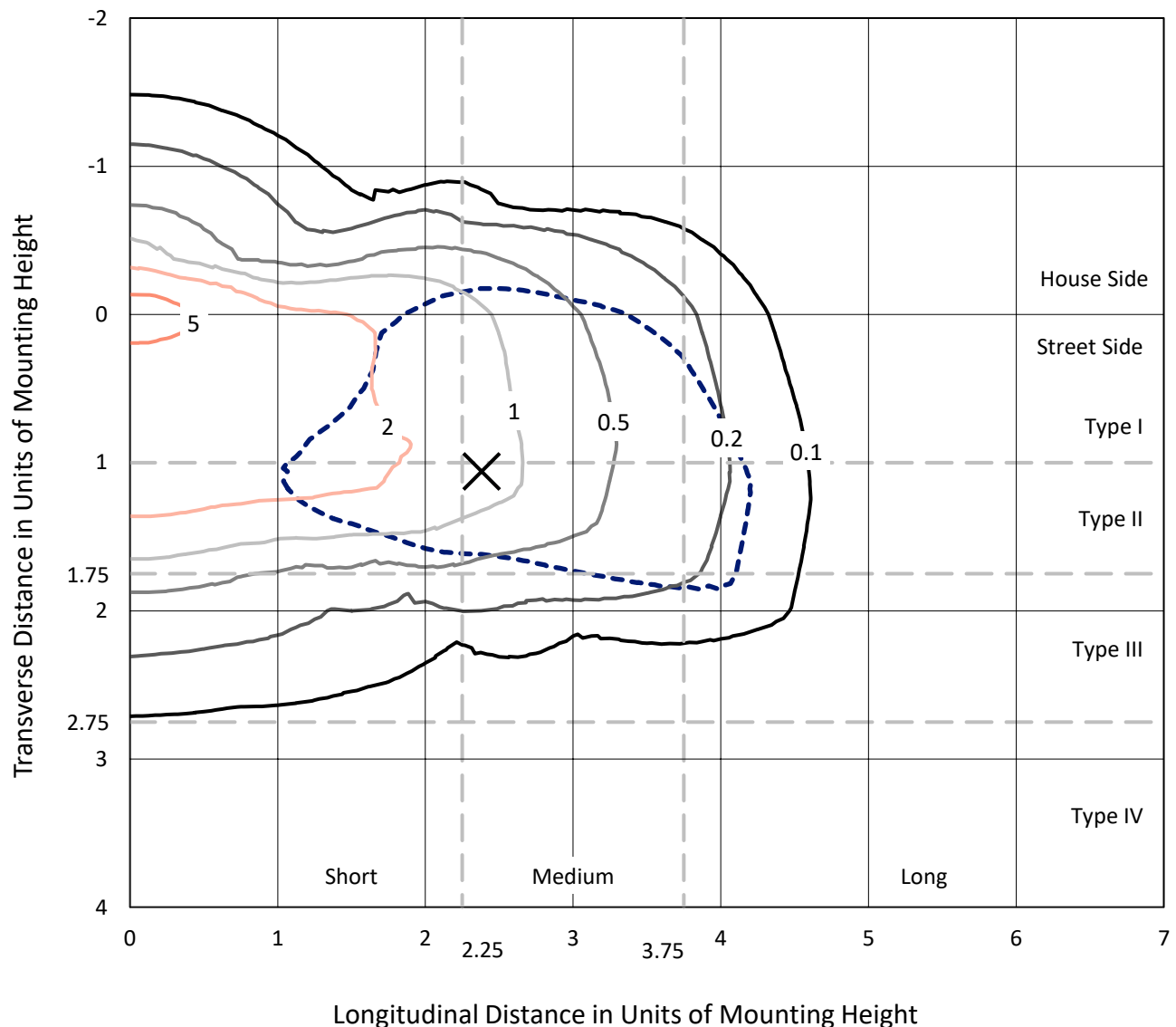


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

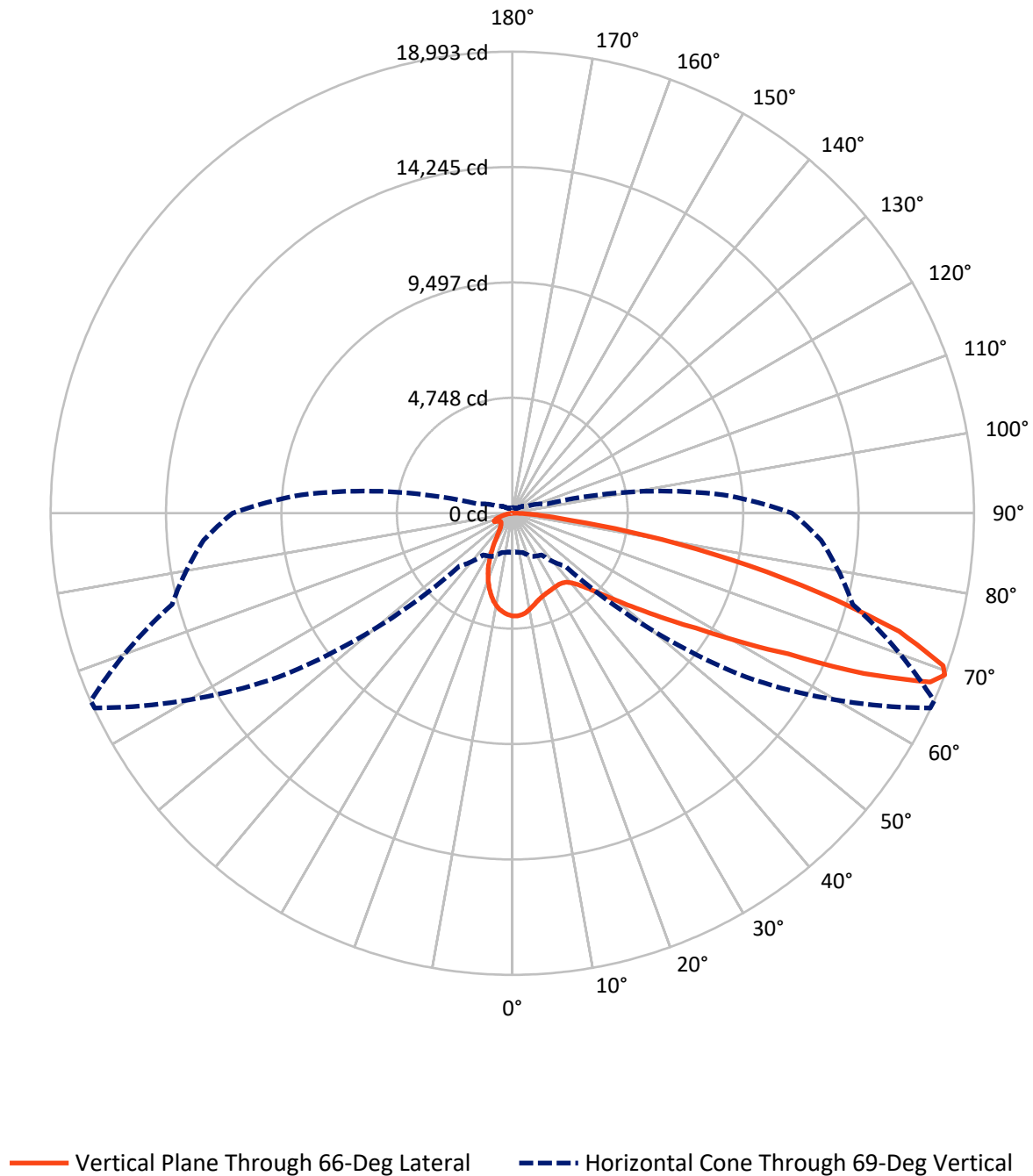


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3444.9	0.0	3444.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14873.1	0.0	14873.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	18318.0	0.0	18318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	2.0
10°-20°	871.3	4.8
20°-30°	1186.2	6.5
30°-40°	1593.9	8.7
40°-50°	2380.0	13.0
50°-60°	3785.8	20.7
60°-70°	4656.4	25.4
70°-80°	3029.6	16.5
80°-90°	447.4	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°	18318.0	100.0
0°-180°	18318.0	100.0

Coefficient of Utilization



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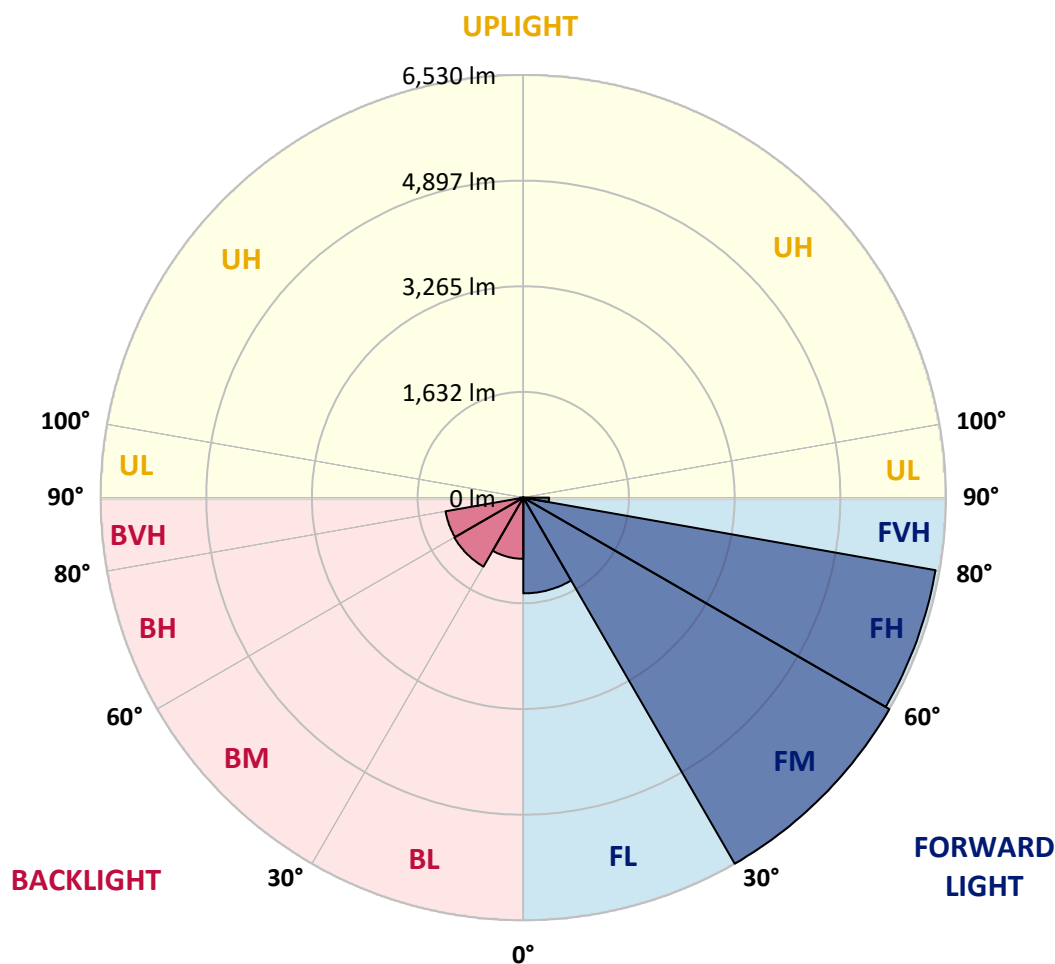
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1479.2	8.1			
FM	(30°-60°)	6529.8	35.6			
FH	(60°-80°)	6466.4	35.3			G3/7500
FVH	(80°-90°)	397.8	2.2			G3/500
BL	(0°-30°)	945.6	5.2	B2/1000		
BM	(30°-60°)	1230.0	6.7	B2/2500		
BH	(60°-80°)	1219.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	49.6	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1
2.5°	4082.0	4098.3	4116.5	4136.8	4175.4	4196.7	4211.9	4229.1	4231.1	4240.3	4233.2
5°	3780.7	3800.0	3827.4	3866.0	3923.8	4014.1	4107.4	4183.5	4192.6	4235.2	4247.4
7.5°	3529.2	3540.3	3562.6	3624.5	3706.7	3807.1	3943.1	4097.2	4119.6	4221.0	4256.5
10°	3324.3	3335.4	3361.8	3425.7	3506.9	3632.6	3781.8	3984.6	4002.9	4177.4	4258.5
12.5°	3171.1	3181.2	3209.6	3272.5	3365.8	3483.5	3647.9	3862.9	3889.3	4119.6	4239.3
15°	3054.4	3073.7	3097.0	3148.8	3247.2	3360.8	3520.0	3751.3	3772.6	4058.7	4226.1
17.5°	3004.7	3013.8	3030.1	3077.8	3149.8	3261.4	3421.6	3664.1	3689.4	4016.1	4223.0
20°	3006.7	3015.9	3018.9	3045.3	3097.0	3193.4	3351.6	3595.1	3625.5	3978.6	4228.1
22.5°	3075.7	3076.7	3065.6	3056.5	3076.7	3156.9	3301.9	3543.4	3578.9	3962.3	4232.2
25°	3182.2	3200.5	3184.3	3141.7	3104.1	3142.7	3282.7	3515.0	3548.4	3939.0	4227.1
27.5°	3354.7	3357.7	3344.5	3286.7	3189.3	3160.9	3274.6	3493.7	3522.1	3921.8	4201.7
30°	3586.0	3576.8	3564.7	3500.8	3347.6	3230.9	3291.8	3474.4	3503.8	3896.4	4171.3
32.5°	3820.3	3848.7	3837.6	3762.5	3563.7	3366.9	3347.6	3472.4	3496.7	3877.1	4137.8
35°	4068.8	4082.0	4134.8	4096.2	3892.3	3587.0	3452.1	3503.8	3523.1	3878.1	4114.5
37.5°	4263.6	4299.1	4422.9	4456.4	4264.6	3878.1	3621.5	3593.1	3601.2	3927.8	4123.6
40°	4499.0	4559.8	4719.1	4856.0	4730.2	4256.5	3909.6	3758.4	3768.6	4047.5	4183.5
42.5°	4797.2	4839.8	5053.8	5239.5	5219.2	4756.6	4258.5	4029.3	4034.4	4285.9	4350.9
45°	5146.2	5207.0	5447.4	5726.4	5774.1	5322.7	4762.7	4439.1	4436.1	4656.2	4663.3
47.5°	5592.5	5630.0	5868.4	6172.8	6365.5	6033.8	5374.4	5027.5	4995.0	5195.9	5138.0
50°	6003.3	6062.2	6242.7	6575.5	7055.3	6866.6	6178.8	5790.3	5714.2	5901.9	5804.5
52.5°	6175.8	6237.7	6389.8	6802.7	7646.7	7943.9	7200.4	6700.3	6573.4	6717.5	6682.0
55°	5876.5	5956.7	6098.7	6600.8	7906.4	9186.6	8577.9	7752.2	7659.9	7598.0	7608.2
57.5°	5072.1	5148.2	5339.9	5893.8	7596.0	10088.4	10544.9	9104.4	8906.6	8621.6	8670.3
60°	3860.9	3908.6	4008.0	4621.7	6675.9	10322.7	12778.7	10813.7	10687.9	9641.1	9675.5
62.5°	2742.0	2795.7	2864.7	3171.1	4887.5	9662.4	14527.5	13200.7	12751.3	10697.1	10663.6
65°	2226.7	2190.1	2273.3	2416.4	2867.8	7488.5	14921.1	16513.8	15895.0	12087.8	11623.2
67.5°	1831.0	1792.5	1874.6	2129.3	2181.0	4346.8	13503.0	18664.3	18540.6	13600.3	12598.1
69°	1621.0	1600.8	1672.8	1962.9	2093.8	3086.9	11763.2	18963.6	18993.0	14492.0	12748.2
70°	1460.8	1468.9	1538.9	1878.7	2054.2	2545.2	10053.9	18550.7	18800.3	14937.3	12585.9
72.5°	1075.3	1092.5	1189.9	1556.1	2016.7	2159.7	5983.1	16203.3	16644.6	14963.7	11513.7
75°	751.7	743.6	829.8	1171.7	1905.1	2140.4	3514.0	12531.1	13031.3	12933.9	9674.5
77.5°	492.0	505.2	574.2	827.8	1602.8	2124.2	2290.6	8890.4	9215.0	8650.0	5722.3
80°	346.9	345.9	384.5	565.0	1188.9	2041.0	1875.7	5603.7	5521.5	3399.3	1697.1
82.5°	198.8	213.0	257.7	397.7	795.3	1796.5	1725.5	2680.1	2446.8	968.8	573.1
85°	110.6	115.6	153.2	240.4	464.6	1353.2	1506.4	1219.3	1150.4	404.8	246.5
87.5°	35.5	38.5	63.9	121.7	211.0	639.1	853.1	563.0	519.4	146.1	99.4
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°	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1	4230.1
2.5°	4236.2	4248.4	4215.9	4184.5	4156.1	4116.5	4081.0	4051.6	4031.3	4028.3	4018.1
5°	4250.4	4251.4	4189.6	4106.4	4025.2	3936.0	3843.6	3777.7	3715.8	3681.3	3664.1
7.5°	4260.6	4251.4	4139.9	4004.9	3848.7	3686.4	3524.1	3394.3	3293.8	3254.3	3269.5
10°	4256.5	4228.1	4064.8	3848.7	3621.5	3379.0	3145.7	2963.1	2795.7	2709.5	2711.5
12.5°	4234.2	4187.5	3953.2	3673.2	3339.5	3014.9	2657.8	2411.3	2217.5	2102.9	2067.4
15°	4214.9	4133.8	3822.3	3434.8	3019.9	2556.3	2121.2	1816.8	1654.5	1564.2	1563.2
17.5°	4194.6	4082.0	3679.3	3182.2	2652.7	2056.2	1599.7	1367.4	1291.4	1300.5	1285.3
20°	4173.3	4021.2	3530.2	2901.2	2205.4	1533.8	1198.0	1103.7	1125.0	1166.6	1172.7
22.5°	4149.0	3956.2	3369.9	2591.8	1734.7	1154.4	971.8	957.6	1012.4	1077.3	1086.4
25°	4111.4	3875.1	3168.0	2268.2	1338.0	930.2	851.1	861.2	915.0	969.8	975.9
27.5°	4058.7	3774.7	2964.1	1864.5	1005.3	798.3	778.1	791.2	817.6	851.1	859.2
30°	3987.7	3661.0	2729.8	1515.5	805.5	732.4	724.3	731.4	746.6	760.8	764.9
32.5°	3916.7	3551.5	2493.4	1160.5	718.2	688.8	680.7	680.7	680.7	682.7	683.7
35°	3850.7	3448.0	2239.8	903.8	672.6	654.3	643.1	631.0	628.9	621.8	621.8
37.5°	3814.2	3353.7	1970.0	756.8	639.1	625.9	610.7	590.4	579.2	580.2	578.2
40°	3821.3	3291.8	1724.5	673.6	611.7	597.5	574.2	550.8	543.7	543.7	541.7
42.5°	3901.5	3271.5	1489.2	630.0	585.3	569.1	539.7	518.4	514.3	513.3	515.3
45°	4086.1	3321.2	1278.2	601.6	563.0	538.7	509.2	490.0	485.9	485.9	484.9
47.5°	4446.2	3482.5	1127.0	583.3	546.8	515.3	484.9	465.6	458.5	456.5	456.5
50°	5006.2	3832.5	1014.4	567.1	526.5	494.0	462.6	440.3	429.1	428.1	427.1
52.5°	5784.2	4378.2	970.8	554.9	504.2	471.7	437.2	415.9	401.7	398.7	396.6
55°	6694.2	5140.1	1030.7	545.8	480.8	446.3	410.8	388.5	375.3	369.2	368.2
57.5°	7748.1	6055.1	1257.9	533.6	459.5	419.0	384.5	362.1	347.9	340.8	338.8
60°	8694.6	6995.4	1654.5	526.5	441.3	389.5	354.0	333.7	320.6	313.5	312.4
62.5°	9734.4	7892.2	2128.3	545.8	433.2	361.1	325.6	307.4	296.2	289.1	289.1
65°	10845.2	8790.0	2441.7	610.7	445.3	338.8	295.2	280.0	269.8	264.8	263.7
67.5°	11593.8	9100.4	2011.6	677.6	475.8	314.5	265.8	253.6	247.5	242.4	242.4
69°	11512.7	8707.8	1484.1	694.9	484.9	302.3	249.5	240.4	232.3	230.3	228.2
70°	11256.0	8260.4	1243.7	683.7	477.8	291.1	239.4	228.2	221.1	219.1	218.1
72.5°	10025.5	7163.8	926.2	594.5	406.8	252.6	212.0	201.9	195.8	192.7	192.7
75°	8329.4	5855.2	723.3	472.7	318.5	213.0	181.6	173.5	168.4	166.4	165.4
77.5°	4668.4	3269.5	519.4	370.3	241.4	172.5	152.2	145.1	140.0	138.0	138.0
80°	1300.5	934.3	305.3	244.5	164.3	130.9	120.7	115.6	108.5	103.5	106.5
82.5°	490.0	404.8	174.5	147.1	104.5	87.2	84.2	80.1	77.1	70.0	70.0
85°	238.4	196.8	111.6	78.1	57.8	45.6	43.6	41.6	39.6	34.5	35.5
87.5°	82.2	87.2	48.7	28.4	17.2	11.2	9.1	5.1	5.1	5.1	5.1
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)