

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: P455943

Luminaire Tested: **GALN-SA7A-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455943
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-SA7A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 24776 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 215
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

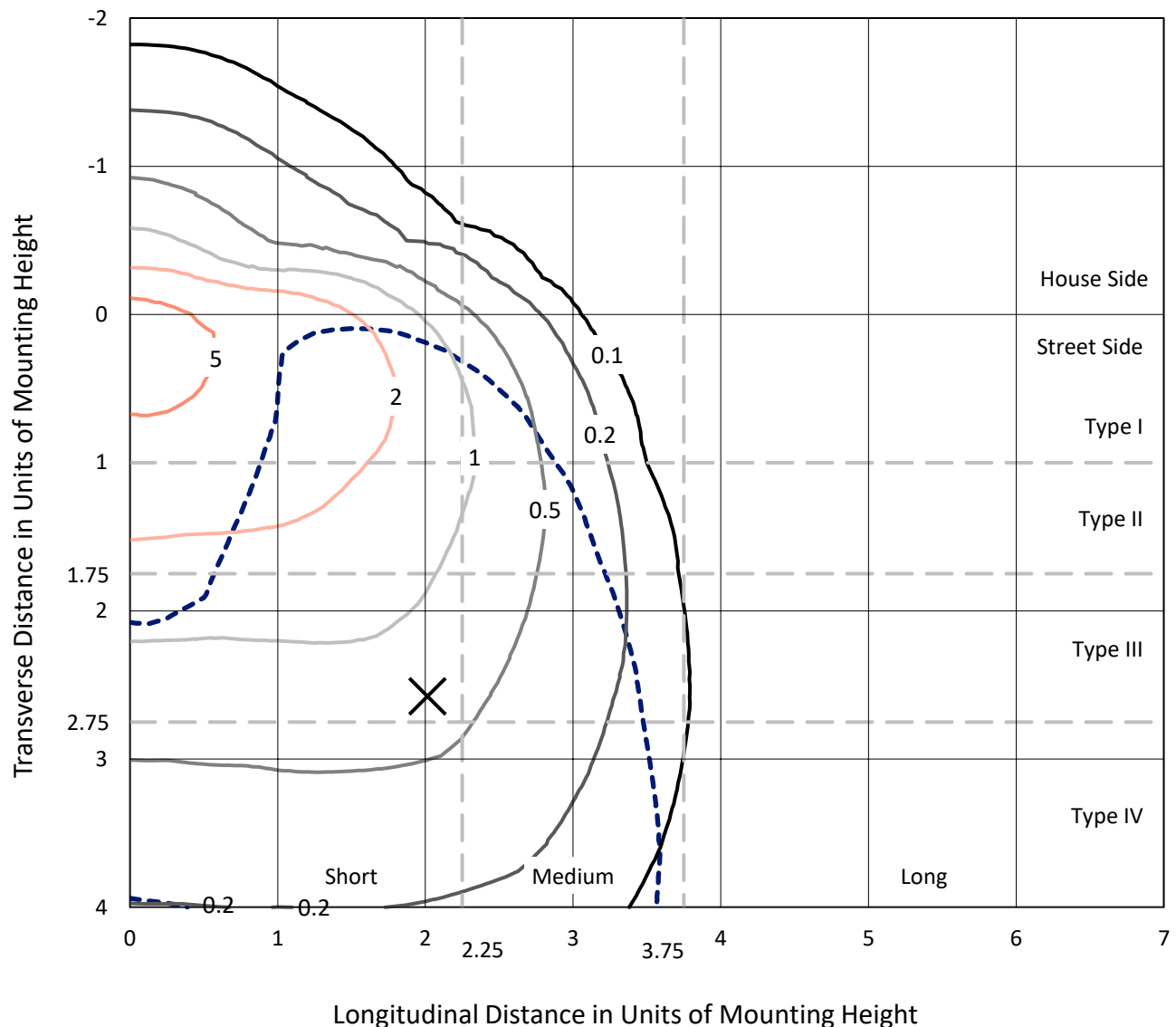


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

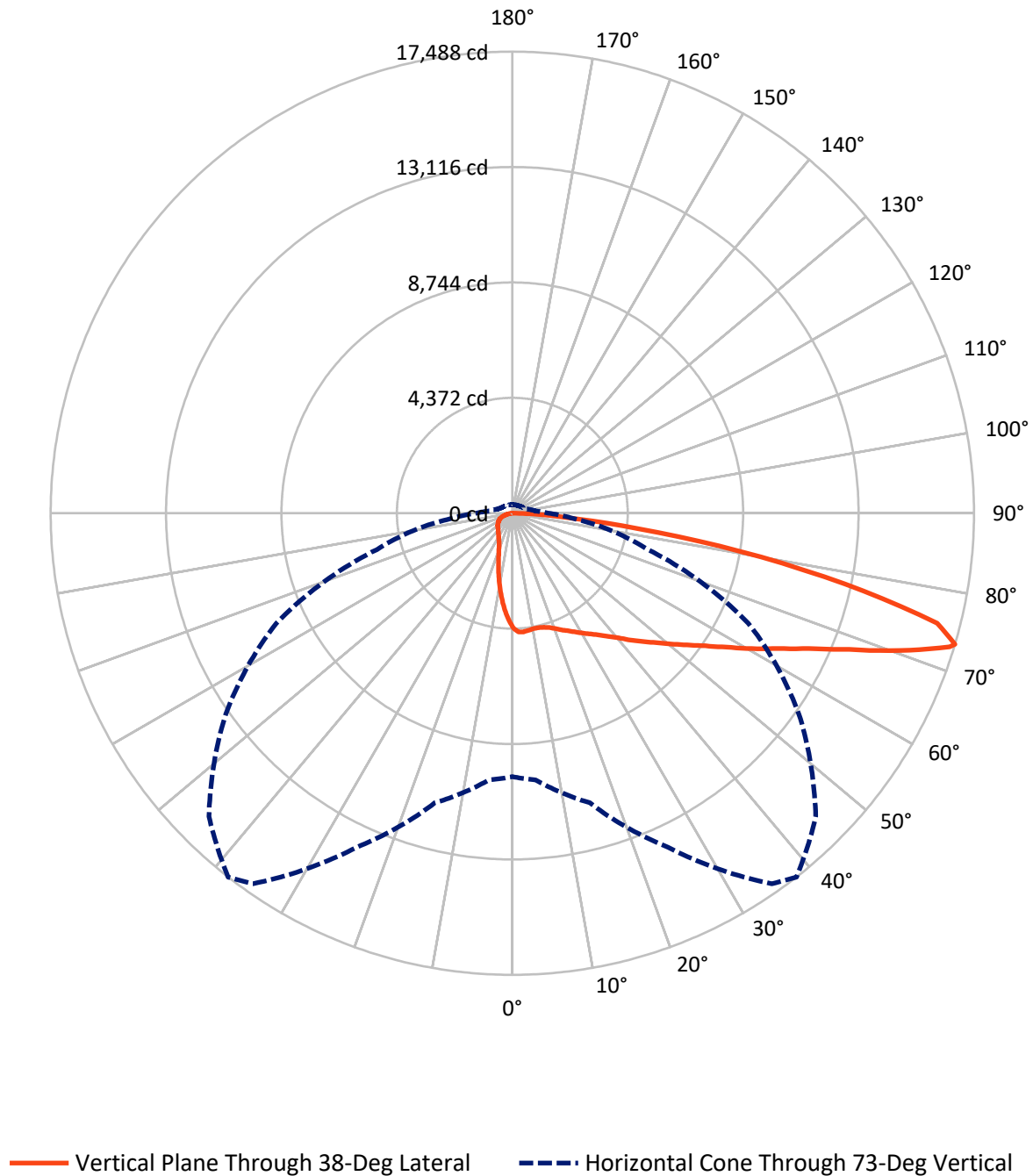


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3330.6	0.0	3330.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21445.4	0.0	21445.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	24776.0	0.0	24776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.9	1.5
10°-20°	974.3	3.9
20°-30°	1517.2	6.1
30°-40°	2225.4	9.0
40°-50°	3301.0	13.3
50°-60°	4676.9	18.9
60°-70°	5932.8	23.9
70°-80°	4938.6	19.9
80°-90°	829.8	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°	24776.0	100.0
0°-180°	24776.0	100.0

Coefficient of Utilization



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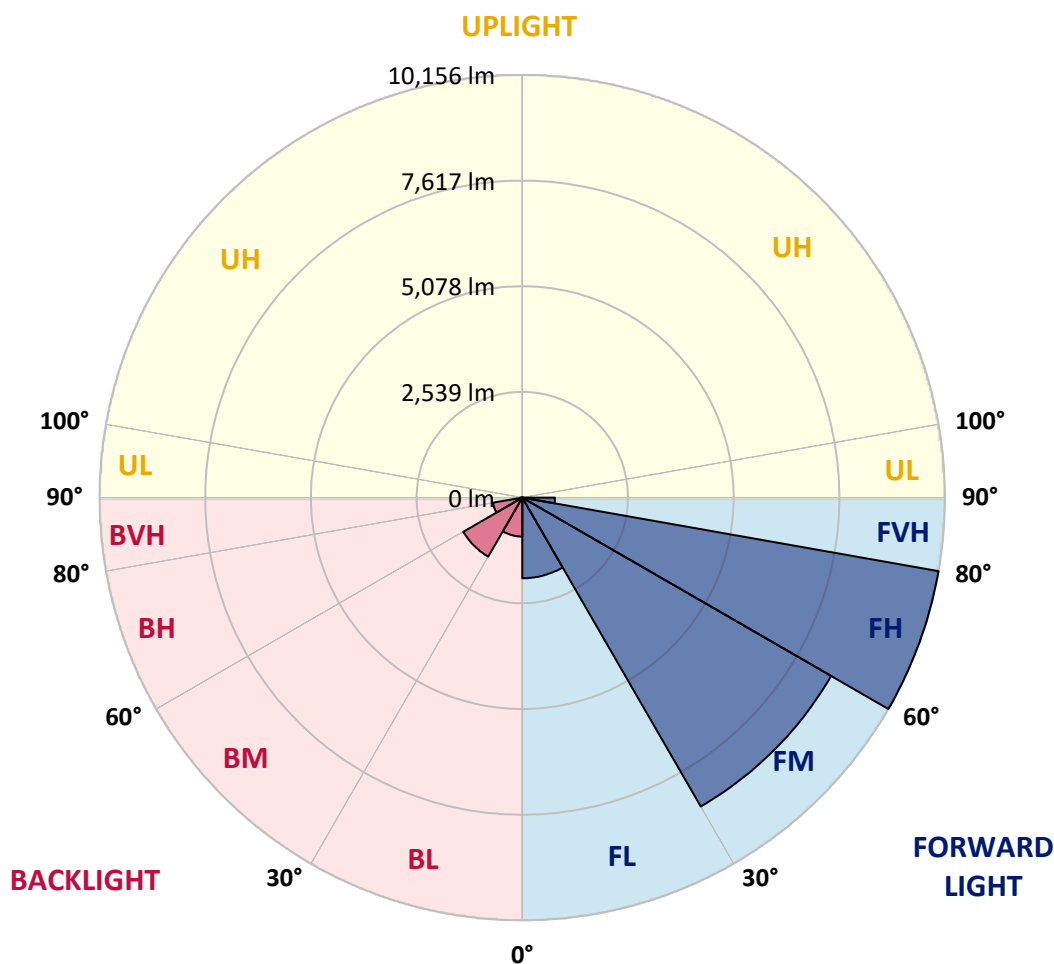
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1936.8	7.8			
FM	(30°-60°)	8568.2	34.6			
FH	(60°-80°)	10155.6	41.0			G4/12000
FVH	(80°-90°)	784.8	3.2			G5
BL	(0°-30°)	934.6	3.8	B2/1000		
BM	(30°-60°)	1635.1	6.6	B2/2500		
BH	(60°-80°)	715.9	2.9	B2/1000		G2/1000
BVH	(80°-90°)	45.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7
2.5°	4527.6	4550.0	4538.8	4523.4	4513.6	4503.8	4489.8	4449.3	4417.1	4382.1	4327.5
5°	4561.2	4575.2	4565.4	4545.8	4523.4	4513.6	4487.0	4433.9	4382.1	4323.3	4242.2
7.5°	4541.6	4547.2	4536.0	4512.2	4492.6	4474.4	4443.7	4384.9	4321.9	4250.6	4144.3
10°	4471.7	4492.6	4492.6	4473.0	4453.5	4443.7	4412.9	4356.9	4299.6	4218.4	4092.5
12.5°	4414.3	4436.7	4454.9	4449.3	4447.9	4447.9	4424.1	4382.1	4314.9	4238.0	4088.3
15°	4375.1	4401.7	4440.9	4463.3	4477.2	4481.4	4471.7	4435.3	4366.7	4277.2	4105.1
17.5°	4366.7	4398.9	4470.3	4519.2	4555.6	4554.2	4551.4	4501.0	4425.5	4333.1	4126.1
20°	4404.5	4446.5	4545.8	4622.8	4675.9	4666.1	4650.7	4585.0	4496.8	4393.3	4145.7
22.5°	4517.8	4561.2	4670.3	4754.3	4806.0	4806.0	4759.9	4673.1	4579.4	4463.3	4172.2
25°	4680.1	4727.7	4843.8	4929.2	4953.0	4934.8	4888.6	4783.7	4675.9	4564.0	4228.2
27.5°	4878.8	4936.2	5043.9	5115.3	5108.3	5094.3	5046.7	4912.4	4804.6	4702.5	4323.3
30°	5126.4	5168.4	5280.4	5297.1	5272.0	5269.2	5202.0	5067.7	4966.9	4888.6	4459.1
32.5°	5360.1	5397.9	5487.4	5494.4	5449.6	5455.2	5392.3	5269.2	5211.8	5183.8	4687.1
35°	5607.8	5627.3	5704.3	5695.9	5666.5	5662.3	5637.1	5519.6	5537.8	5588.2	5010.3
37.5°	5814.8	5854.0	5897.4	5904.4	5903.0	5917.0	5933.8	5877.8	5982.7	6140.8	5434.3
40°	6005.1	6038.7	6103.0	6125.4	6180.0	6208.0	6265.3	6266.7	6508.8	6769.0	5956.1
42.5°	6133.8	6191.2	6311.5	6352.1	6485.0	6569.0	6654.3	6745.3	7096.4	7430.8	6571.8
45°	6245.8	6321.3	6521.4	6647.3	6827.8	6929.9	7110.4	7300.7	7805.8	8243.7	7197.2
47.5°	6415.1	6482.2	6711.7	6934.1	7207.0	7324.5	7594.5	7878.6	8538.9	9018.9	7796.0
50°	6650.1	6690.7	6924.3	7286.7	7635.1	7786.2	8143.0	8552.9	9322.5	9784.2	8322.1
52.5°	6950.9	6967.7	7153.8	7636.5	8095.4	8282.9	8755.8	9234.3	10008.0	10448.8	8739.0
55°	7306.3	7278.3	7423.8	8007.3	8621.5	8866.3	9374.2	9924.1	10779.0	10986.0	9042.6
57.5°	7657.5	7614.1	7730.2	8457.8	9270.7	9565.9	10157.8	10634.9	11467.3	11488.3	9255.3
60°	8029.7	7997.5	8136.0	8986.7	10066.8	10416.6	10963.7	11372.2	12133.3	11838.1	9288.9
62.5°	8411.6	8359.9	8557.1	9581.3	10963.7	11281.3	11811.5	12155.7	12786.7	11968.2	8965.7
65°	8782.4	8758.6	9063.6	10287.9	11985.0	12346.0	12860.9	13094.5	13310.0	11772.4	8164.0
67.5°	9177.0	9224.5	9711.4	11230.9	13317.0	13770.3	14325.8	14106.1	13459.7	10844.7	6875.4
70°	9778.6	9809.4	10562.1	12466.3	15033.8	15580.8	15849.5	14465.7	12737.8	9083.2	5168.4
72.5°	10037.4	10173.1	11321.8	13763.3	16984.2	17318.5	16361.5	13664.0	10611.1	6170.2	2715.7
73°	9980.1	10142.4	11356.8	13960.6	17136.7	17487.8	16252.4	13251.3	9863.9	5313.9	2328.2
75°	9265.1	9465.2	10902.1	13795.5	16840.0	16630.2	14497.9	11293.9	6665.5	2416.3	1060.5
77.5°	7310.5	7367.9	8638.3	11139.9	13261.0	12872.1	10850.3	7058.7	2722.7	898.2	601.6
80°	3667.1	3878.4	4869.0	6381.5	8867.7	8740.4	6848.8	3338.3	1134.7	527.5	398.8
82.5°	1764.3	1914.0	2371.5	3111.7	4899.8	4783.7	3391.5	1824.5	720.6	307.8	235.1
85°	1136.1	1248.0	1509.7	1484.5	2014.8	1923.8	1523.7	1381.0	426.7	160.9	163.7
87.5°	749.9	821.3	985.0	787.7	733.1	663.2	673.0	777.9	83.9	61.6	22.4
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°	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7	4352.7
2.5°	4305.2	4287.0	4226.8	4168.0	4112.1	4058.9	4023.9	3977.8	3947.0	3955.4	3968.0
5°	4197.4	4156.8	4050.5	3947.0	3849.0	3732.9	3639.2	3563.6	3506.2	3485.3	3481.1
7.5°	4084.1	4015.5	3863.0	3685.3	3518.8	3374.7	3208.2	3125.7	3029.1	2995.6	2984.4
10°	4015.5	3923.2	3709.1	3461.5	3211.0	2971.8	2791.3	2644.4	2511.5	2486.3	2473.7
12.5°	3995.9	3874.2	3586.0	3267.0	2934.0	2640.2	2372.9	2179.9	2051.1	2021.8	1978.4
15°	3984.7	3833.6	3471.3	3071.1	2648.6	2290.4	2009.2	1783.9	1666.4	1588.0	1589.4
17.5°	3975.0	3787.5	3342.5	2857.0	2402.3	1989.6	1679.0	1476.1	1368.4	1326.4	1322.2
20°	3961.0	3732.9	3194.2	2631.8	2121.1	1715.3	1434.1	1283.0	1210.3	1175.3	1173.9
22.5°	3955.4	3679.7	3048.7	2402.3	1872.0	1504.1	1271.8	1165.5	1119.3	1095.5	1095.5
25°	3969.4	3642.0	2896.2	2184.1	1651.0	1323.6	1159.9	1087.1	1060.5	1048.0	1043.8
27.5°	4012.7	3625.2	2745.1	1965.8	1448.1	1200.5	1084.3	1034.0	1014.4	1004.6	1006.0
30°	4095.3	3623.8	2596.8	1750.3	1297.0	1106.7	1024.2	989.2	973.8	968.2	966.8
32.5°	4228.2	3654.6	2451.3	1572.6	1169.7	1028.4	968.2	943.0	936.0	931.8	930.4
35°	4453.5	3741.3	2307.2	1410.3	1071.7	958.4	915.0	902.4	892.7	896.8	898.2
37.5°	4757.1	3891.0	2170.1	1283.0	997.6	906.6	870.3	859.1	853.5	857.7	861.9
40°	5164.2	4106.5	2055.3	1180.9	944.4	863.3	831.1	821.3	815.7	822.7	824.1
42.5°	5613.3	4355.5	1960.2	1101.1	901.0	826.9	796.1	784.9	780.7	784.9	786.3
45°	6075.1	4645.1	1911.2	1043.8	864.7	800.3	768.1	755.5	745.7	742.9	747.1
47.5°	6529.8	4897.0	1909.8	1008.8	835.3	776.5	741.5	727.6	715.0	708.0	706.6
50°	6900.6	5097.1	1943.4	993.4	810.1	749.9	715.0	701.0	684.2	670.2	673.0
52.5°	7180.4	5227.2	1958.8	986.4	796.1	722.0	687.0	674.4	654.8	636.6	636.6
55°	7360.9	5258.0	1921.0	979.4	784.9	692.6	654.8	643.6	624.0	605.8	605.8
57.5°	7422.4	5162.8	1785.3	962.6	773.7	667.4	622.6	612.8	597.4	579.2	576.4
60°	7279.7	4841.0	1547.4	912.2	751.3	640.8	587.6	583.4	577.8	562.5	561.1
62.5°	6729.9	4158.2	1288.6	846.5	713.6	612.8	555.5	562.5	566.7	558.3	556.9
65°	5814.8	3376.1	1101.1	755.5	663.2	573.6	520.5	538.7	549.9	549.9	547.1
67.5°	4716.5	2592.6	927.6	677.2	600.2	520.5	481.3	495.3	503.7	500.9	507.9
70°	3352.3	1755.9	755.5	587.6	520.5	460.3	430.9	430.9	425.3	422.5	422.5
72.5°	1625.8	1003.2	612.8	491.1	443.5	393.2	369.4	359.6	348.4	347.0	340.0
73°	1358.6	899.6	584.8	472.9	425.3	383.4	356.8	341.4	334.4	328.8	327.4
75°	826.9	682.8	488.3	398.8	362.4	330.2	306.4	292.4	285.4	281.2	279.8
77.5°	544.3	509.3	379.2	305.0	277.0	257.4	247.6	233.7	229.5	223.9	223.9
80°	405.8	389.0	271.4	215.5	198.7	181.9	179.1	176.3	165.1	158.1	155.3
82.5°	261.6	277.0	184.7	144.1	125.9	111.9	113.3	117.5	106.3	96.5	93.7
85°	186.1	200.1	111.9	65.8	53.2	46.2	51.8	46.2	47.6	37.8	30.8
87.5°	30.8	53.2	19.6	8.4	4.2	2.8	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)