

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: P453938

Luminaire Tested: **GALN-SA5A-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453938
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-SA5A-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 20819 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

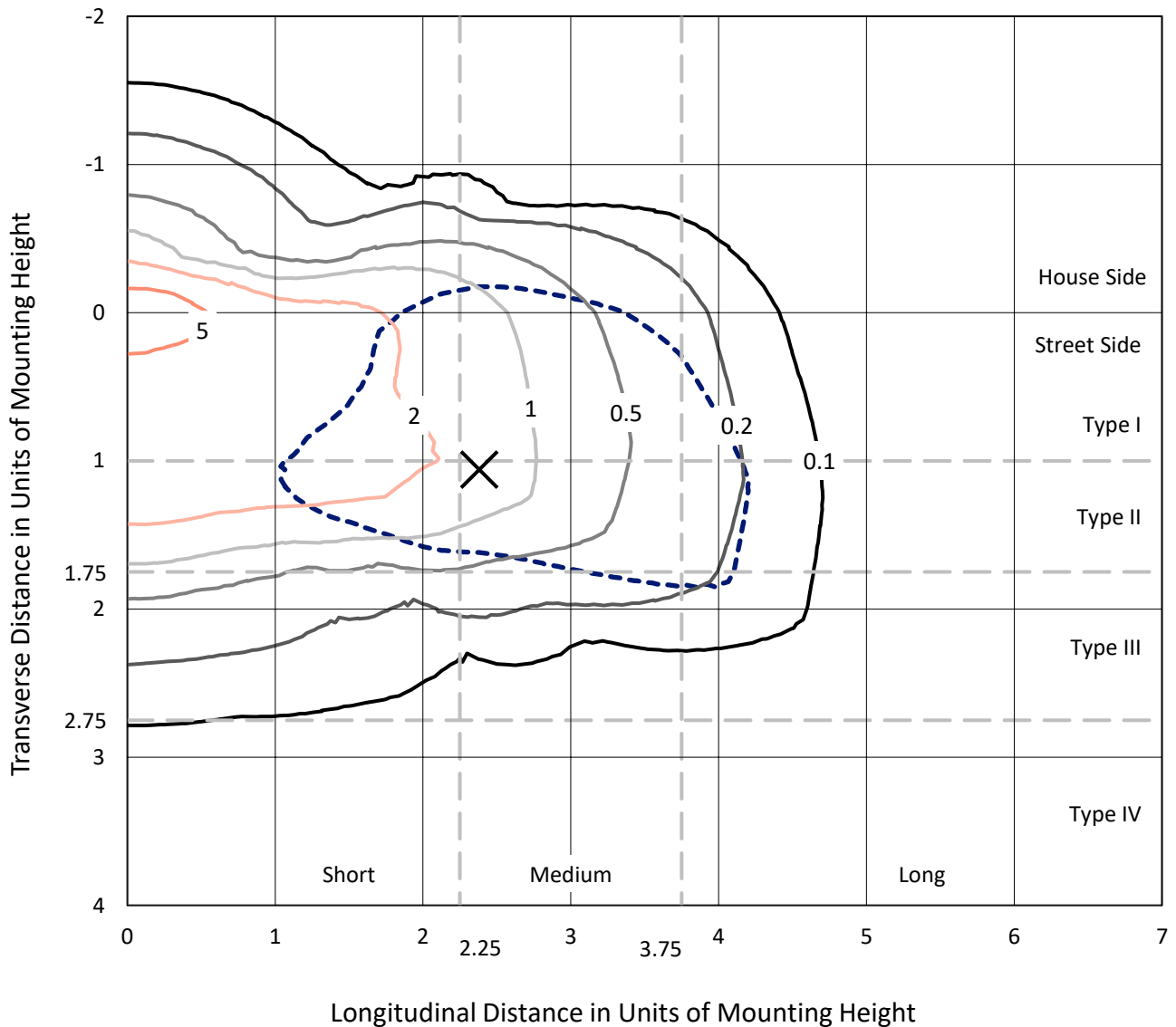
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

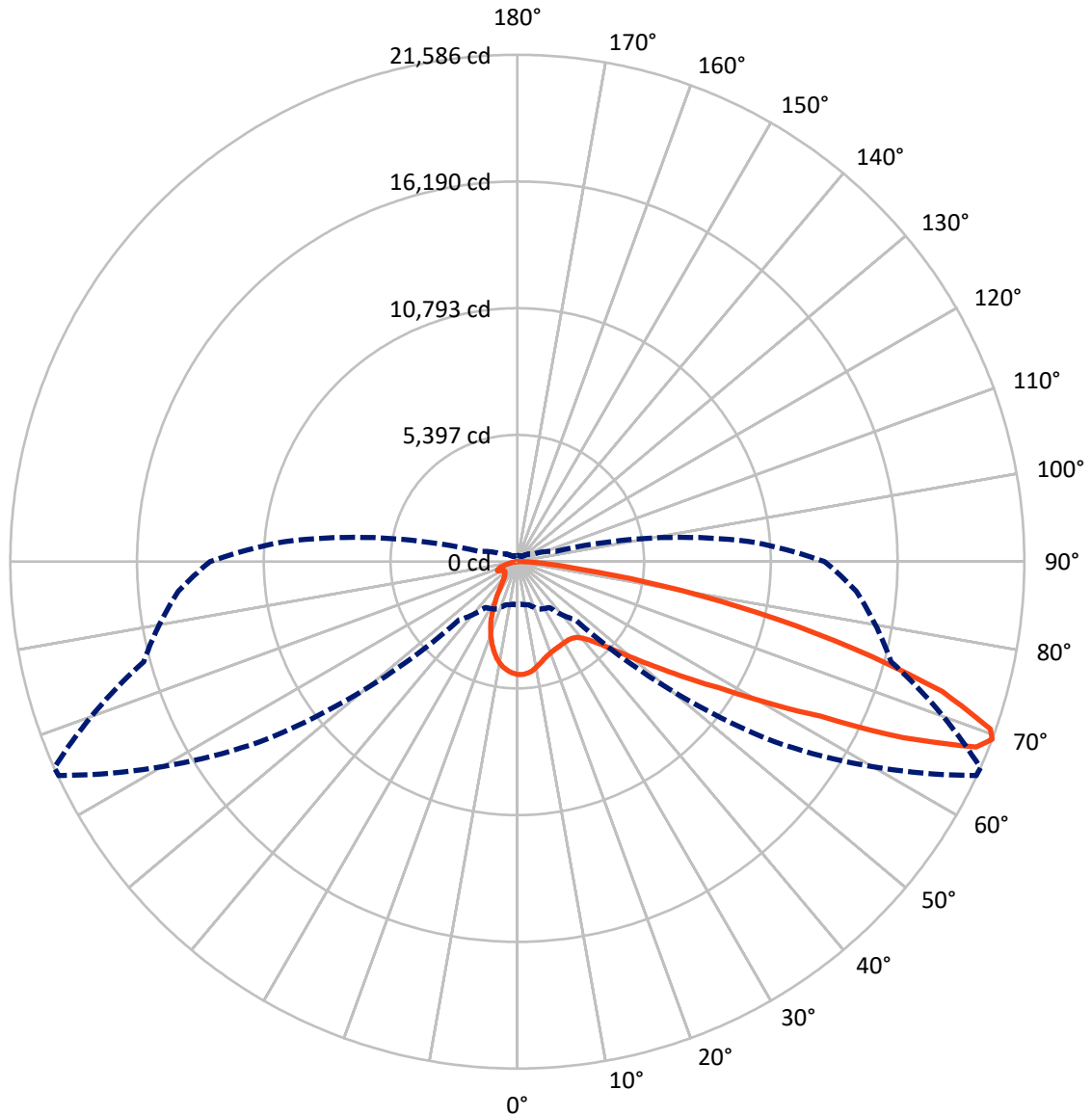
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3915.3	0.0	3915.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16903.7	0.0	16903.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	20819.0	0.0	20819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	2.0
10°-20°	990.3	4.8
20°-30°	1348.1	6.5
30°-40°	1811.6	8.7
40°-50°	2705.0	13.0
50°-60°	4302.7	20.7
60°-70°	5292.1	25.4
70°-80°	3443.3	16.5
80°-90°	508.5	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°	20819.0	100.0
0°-180°	20819.0	100.0

Coefficient of Utilization



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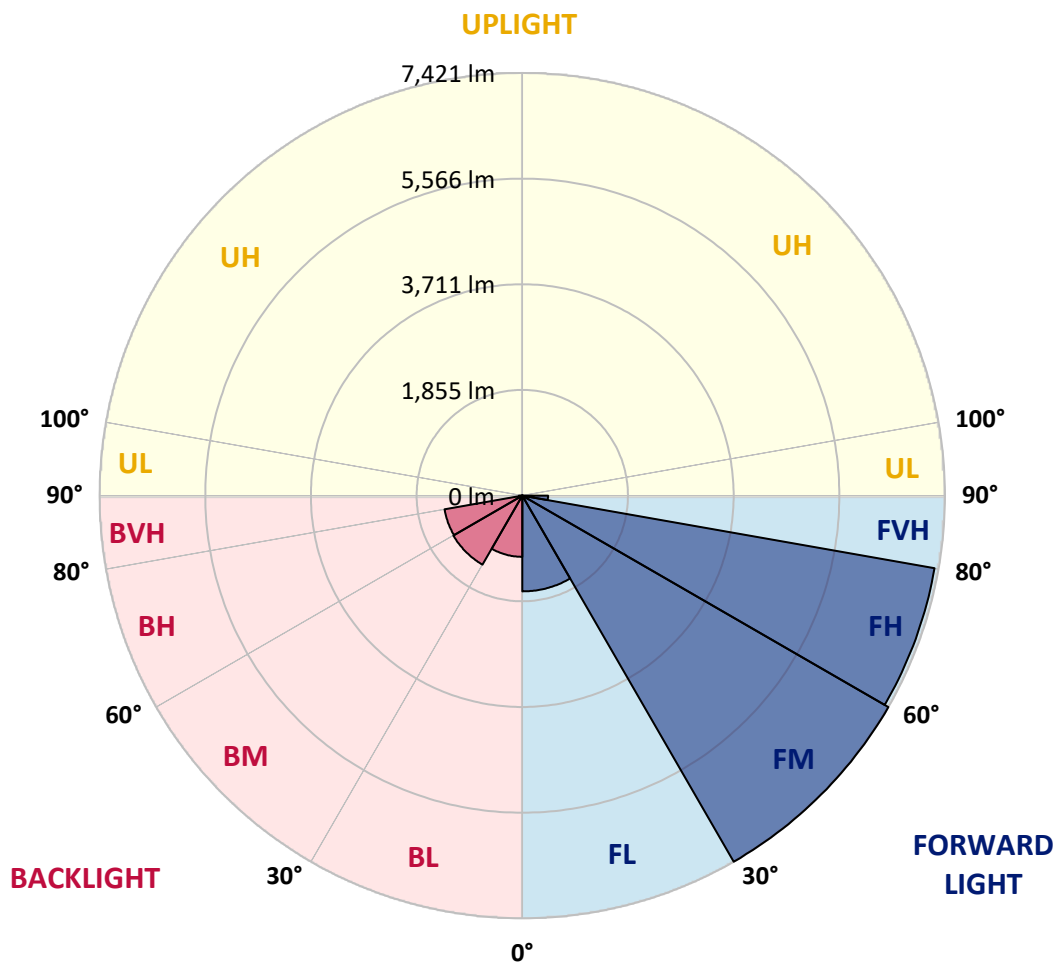
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1681.1	8.1			
FM	(30°-60°)	7421.4	35.6			
FH	(60°-80°)	7349.2	35.3			G3/7500
FVH	(80°-90°)	452.1	2.2			G3/500
BL	(0°-30°)	1074.8	5.2	B3/2500		
BM	(30°-60°)	1397.9	6.7	B2/2500		
BH	(60°-80°)	1386.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	56.4	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°	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7
2.5°	4639.4	4657.8	4678.6	4701.6	4745.4	4769.6	4786.9	4806.5	4808.8	4819.2	4811.1
5°	4296.9	4318.8	4350.0	4393.8	4459.5	4562.1	4668.2	4754.7	4765.0	4813.5	4827.3
7.5°	4011.0	4023.7	4049.1	4119.4	4212.8	4326.9	4481.4	4656.7	4682.0	4797.3	4837.7
10°	3778.1	3790.8	3820.8	3893.4	3985.7	4128.6	4298.1	4528.7	4549.4	4747.7	4840.0
12.5°	3604.0	3615.6	3647.8	3719.3	3825.4	3959.1	4145.9	4390.3	4420.3	4682.0	4818.1
15°	3471.4	3493.4	3519.9	3578.7	3690.5	3819.6	4000.6	4263.5	4287.7	4612.8	4803.1
17.5°	3415.0	3425.3	3443.8	3498.0	3579.8	3706.6	3888.8	4164.4	4193.2	4564.4	4799.6
20°	3417.3	3427.6	3431.1	3461.1	3519.9	3629.4	3809.3	4086.0	4120.5	4521.8	4805.4
22.5°	3495.7	3496.8	3484.1	3473.8	3496.8	3587.9	3752.8	4027.2	4067.5	4503.3	4810.0
25°	3616.7	3637.5	3619.0	3570.6	3527.9	3571.8	3730.9	3994.9	4032.9	4476.8	4804.2
27.5°	3812.7	3816.2	3801.2	3735.5	3624.8	3592.5	3721.6	3970.7	4002.9	4457.2	4775.4
30°	4075.6	4065.2	4051.4	3978.7	3804.6	3672.1	3741.2	3948.8	3982.2	4428.4	4740.8
32.5°	4341.9	4374.2	4361.5	4276.2	4050.2	3826.5	3804.6	3946.5	3974.1	4406.5	4702.8
35°	4624.4	4639.4	4699.3	4655.5	4423.8	4076.7	3923.4	3982.2	4004.1	4407.6	4676.3
37.5°	4845.7	4886.1	5026.7	5064.8	4846.9	4407.6	4115.9	4083.7	4092.9	4464.1	4686.6
40°	5113.2	5182.4	5363.4	5519.0	5376.1	4837.7	4443.4	4271.6	4283.1	4600.2	4754.7
42.5°	5452.2	5500.6	5743.9	5954.8	5931.8	5406.1	4840.0	4579.4	4585.2	4871.1	4944.9
45°	5848.8	5917.9	6191.2	6508.2	6562.4	6049.4	5413.0	5045.2	5041.7	5291.9	5300.0
47.5°	6356.1	6398.7	6669.7	7015.5	7234.6	6857.6	6108.2	5713.9	5677.0	5905.3	5839.6
50°	6823.0	6889.9	7095.1	7473.2	8018.6	7804.1	7022.4	6580.9	6494.4	6707.7	6597.0
52.5°	7019.0	7089.3	7262.3	7731.5	8690.7	9028.5	8183.4	7615.1	7470.9	7634.7	7594.3
55°	6678.9	6770.0	6931.4	7502.1	8985.9	10440.9	9749.1	8810.6	8705.7	8635.4	8646.9
57.5°	5764.6	5851.1	6069.0	6698.5	8633.1	11465.8	11984.6	10347.5	10122.7	9798.7	9854.0
60°	4388.0	4442.2	4555.2	5252.7	7587.4	11732.1	14523.4	12290.2	12147.2	10957.4	10996.6
62.5°	3116.3	3177.5	3255.9	3604.0	5554.8	10981.6	16511.0	15003.0	14492.2	12157.6	12119.5
65°	2530.7	2489.2	2583.7	2746.3	3259.3	8510.9	16958.3	18768.4	18065.1	13738.2	13210.2
67.5°	2081.0	2037.2	2130.6	2420.0	2478.8	4940.3	15346.5	21212.6	21072.0	15457.2	14318.1
69°	1842.4	1819.3	1901.2	2230.9	2379.6	3508.3	13369.3	21552.7	21586.2	16470.6	14488.8
70°	1660.2	1669.4	1749.0	2135.2	2334.7	2892.7	11426.6	21083.5	21367.1	16976.8	14304.3
72.5°	1222.1	1241.7	1352.4	1768.6	2292.0	2454.6	6799.9	18415.6	18917.1	17006.8	13085.7
75°	854.3	845.1	943.1	1331.6	2165.2	2432.7	3993.7	14242.0	14810.4	14699.8	10995.4
77.5°	559.2	574.2	652.6	940.8	1821.6	2414.2	2603.3	10104.2	10473.1	9831.0	6503.6
80°	394.3	393.1	437.0	642.2	1351.2	2319.7	2131.8	6368.7	6275.4	3863.4	1928.8
82.5°	226.0	242.1	292.8	451.9	903.9	2041.8	1961.1	3046.0	2780.8	1101.0	651.4
85°	125.7	131.4	174.1	273.2	528.0	1538.0	1712.1	1385.8	1307.4	460.0	280.2
87.5°	40.4	43.8	72.6	138.4	239.8	726.3	969.6	639.9	590.3	166.0	113.0
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°	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7	4807.7
2.5°	4814.6	4828.4	4791.5	4755.8	4723.5	4678.6	4638.2	4604.8	4581.7	4578.3	4566.7
5°	4830.7	4831.9	4761.6	4667.0	4574.8	4473.3	4368.4	4293.5	4223.2	4184.0	4164.4
7.5°	4842.3	4831.9	4705.1	4551.7	4374.2	4189.7	4005.3	3857.7	3743.5	3698.6	3715.9
10°	4837.7	4805.4	4619.8	4374.2	4115.9	3840.4	3575.2	3367.7	3177.5	3079.5	3081.8
12.5°	4812.3	4759.3	4492.9	4174.7	3795.4	3426.5	3020.7	2740.5	2520.3	2390.0	2349.7
15°	4790.4	4698.2	4344.2	3903.8	3432.2	2905.4	2410.8	2064.9	1880.4	1777.8	1776.7
17.5°	4767.3	4639.4	4181.6	3616.7	3014.9	2337.0	1818.2	1554.1	1467.7	1478.0	1460.8
20°	4743.1	4570.2	4012.2	3297.4	2506.5	1743.2	1361.6	1254.4	1278.6	1325.9	1332.8
22.5°	4715.5	4496.4	3830.0	2945.7	1971.5	1312.0	1104.5	1088.4	1150.6	1224.4	1234.8
25°	4672.8	4404.2	3600.6	2577.9	1520.7	1057.2	967.3	978.8	1039.9	1102.2	1109.1
27.5°	4612.8	4290.0	3368.8	2119.1	1142.5	907.3	884.3	899.3	929.3	967.3	976.5
30°	4532.1	4160.9	3102.5	1722.5	915.4	832.4	823.2	831.3	848.6	864.7	869.3
32.5°	4451.4	4036.4	2833.9	1318.9	816.3	782.8	773.6	773.6	773.6	775.9	777.1
35°	4376.5	3918.8	2545.7	1027.3	764.4	743.6	731.0	717.1	714.8	706.7	706.7
37.5°	4335.0	3811.6	2239.0	860.1	726.3	711.4	694.1	671.0	658.3	659.5	657.2
40°	4343.1	3741.2	1960.0	765.5	695.2	679.1	652.6	626.0	618.0	618.0	615.7
42.5°	4434.1	3718.2	1692.5	716.0	665.2	646.8	613.4	589.1	584.5	583.4	585.7
45°	4644.0	3774.7	1452.7	683.7	639.9	612.2	578.8	556.9	552.2	552.2	551.1
47.5°	5053.3	3958.0	1280.9	662.9	621.4	585.7	551.1	529.2	521.1	518.8	518.8
50°	5689.7	4355.7	1152.9	644.5	598.4	561.5	525.7	500.4	487.7	486.5	485.4
52.5°	6574.0	4976.0	1103.3	630.6	573.0	536.1	496.9	472.7	456.6	453.1	450.8
55°	7608.1	5841.9	1171.4	620.3	546.5	507.3	466.9	441.6	426.6	419.7	418.5
57.5°	8806.0	6881.8	1429.6	606.4	522.3	476.2	437.0	411.6	395.5	387.4	385.1
60°	9881.7	7950.6	1880.4	598.4	501.5	442.7	402.4	379.3	364.3	356.3	355.1
62.5°	11063.4	8969.7	2418.8	620.3	492.3	410.4	370.1	349.3	336.7	328.6	328.6
65°	12325.9	9990.1	2775.1	694.1	506.1	385.1	335.5	318.2	306.7	300.9	299.8
67.5°	13176.7	10342.9	2286.2	770.2	540.7	357.4	302.1	288.2	281.3	275.5	275.5
69°	13084.5	9896.7	1686.7	789.8	551.1	343.6	283.6	273.2	264.0	261.7	259.4
70°	12792.8	9388.2	1413.5	777.1	543.0	330.9	272.1	259.4	251.3	249.0	247.9
72.5°	11394.3	8141.9	1052.6	675.6	462.3	287.1	241.0	229.4	222.5	219.1	219.1
75°	9466.6	6654.7	822.0	537.3	362.0	242.1	206.4	197.1	191.4	189.1	187.9
77.5°	5305.7	3715.9	590.3	420.8	274.4	196.0	172.9	164.9	159.1	156.8	156.8
80°	1478.0	1061.8	347.0	277.9	186.8	148.7	137.2	131.4	123.4	117.6	121.1
82.5°	556.9	460.0	198.3	167.2	118.8	99.2	95.7	91.1	87.6	79.6	79.6
85°	270.9	223.7	126.8	88.8	65.7	51.9	49.6	47.3	45.0	39.2	40.4
87.5°	93.4	99.2	55.3	32.3	19.6	12.7	10.4	5.8	5.8	5.8	5.8
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)