

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: P532610

Luminaire Tested: **GALN-SA8A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27138 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

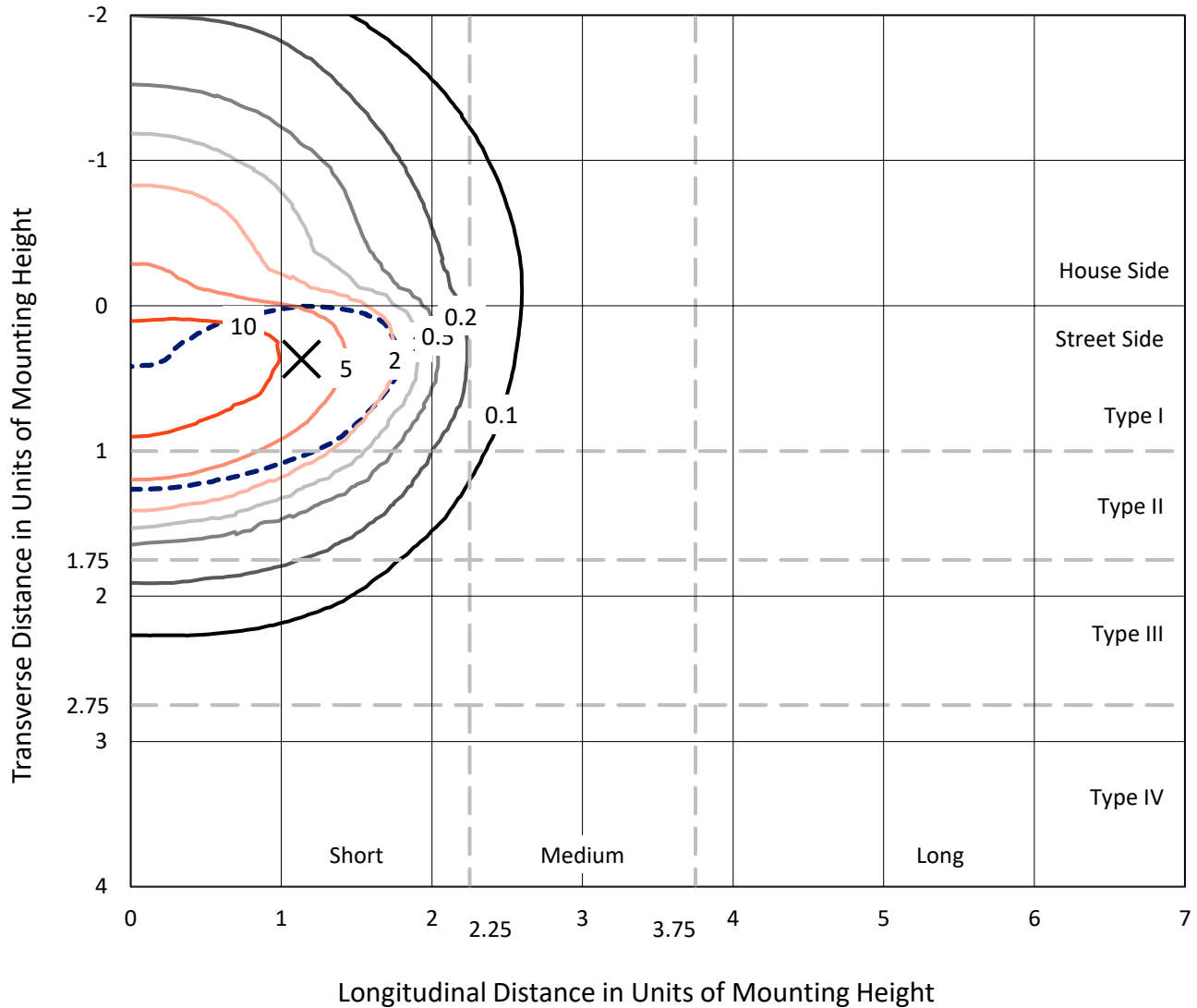
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

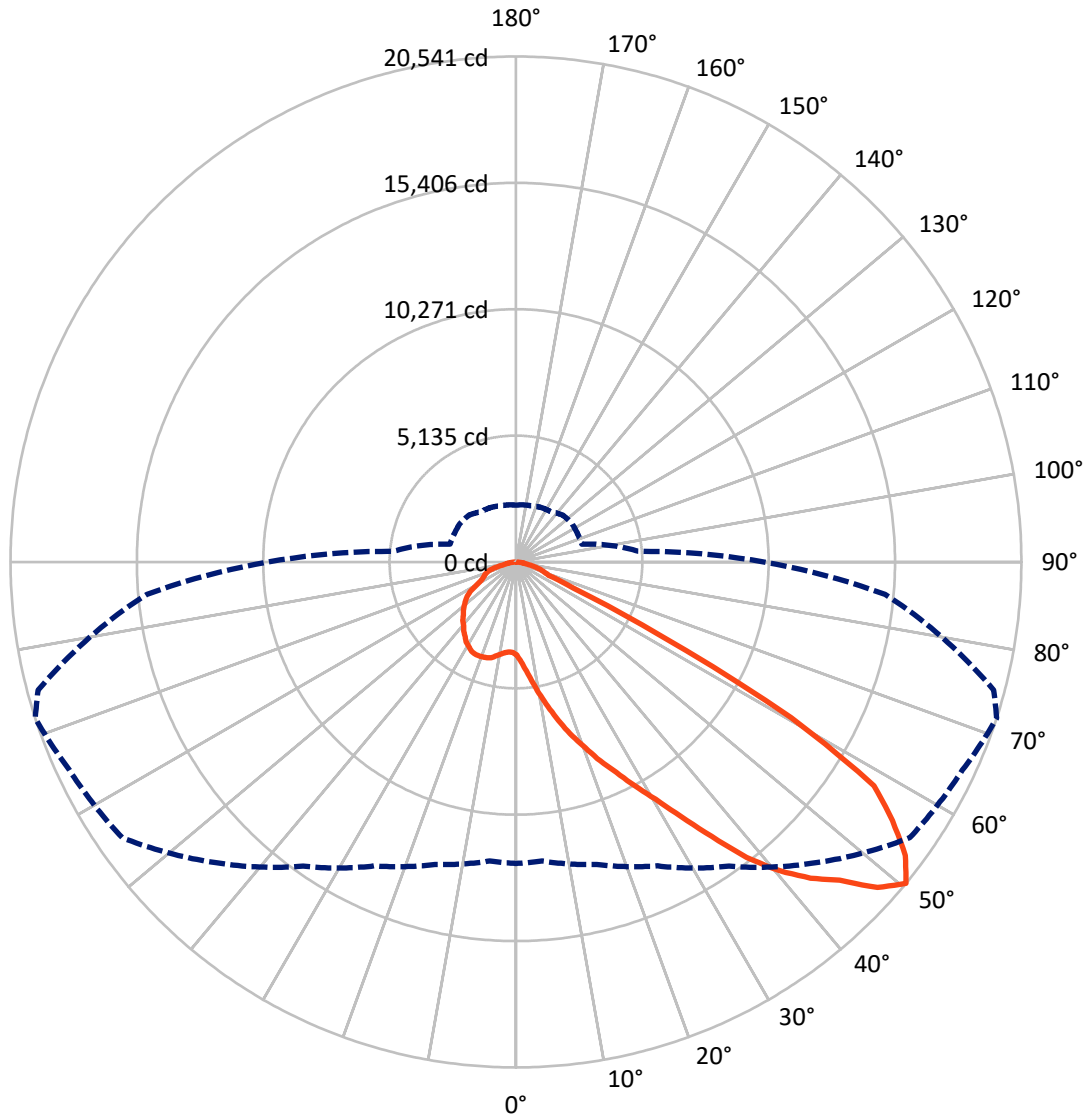
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6217.5	0.0	6217.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20920.5	0.0	20920.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	27138.0	0.0	27138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.4	1.6
10°-20°	1661.2	6.1
20°-30°	3221.0	11.9
30°-40°	5336.0	19.7
40°-50°	7466.2	27.5
50°-60°	6298.7	23.2
60°-70°	1919.8	7.1
70°-80°	673.5	2.5
80°-90°	117.1	0.4
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°	27138.0	100.0
0°-180°	27138.0	100.0

Coefficient of Utilization



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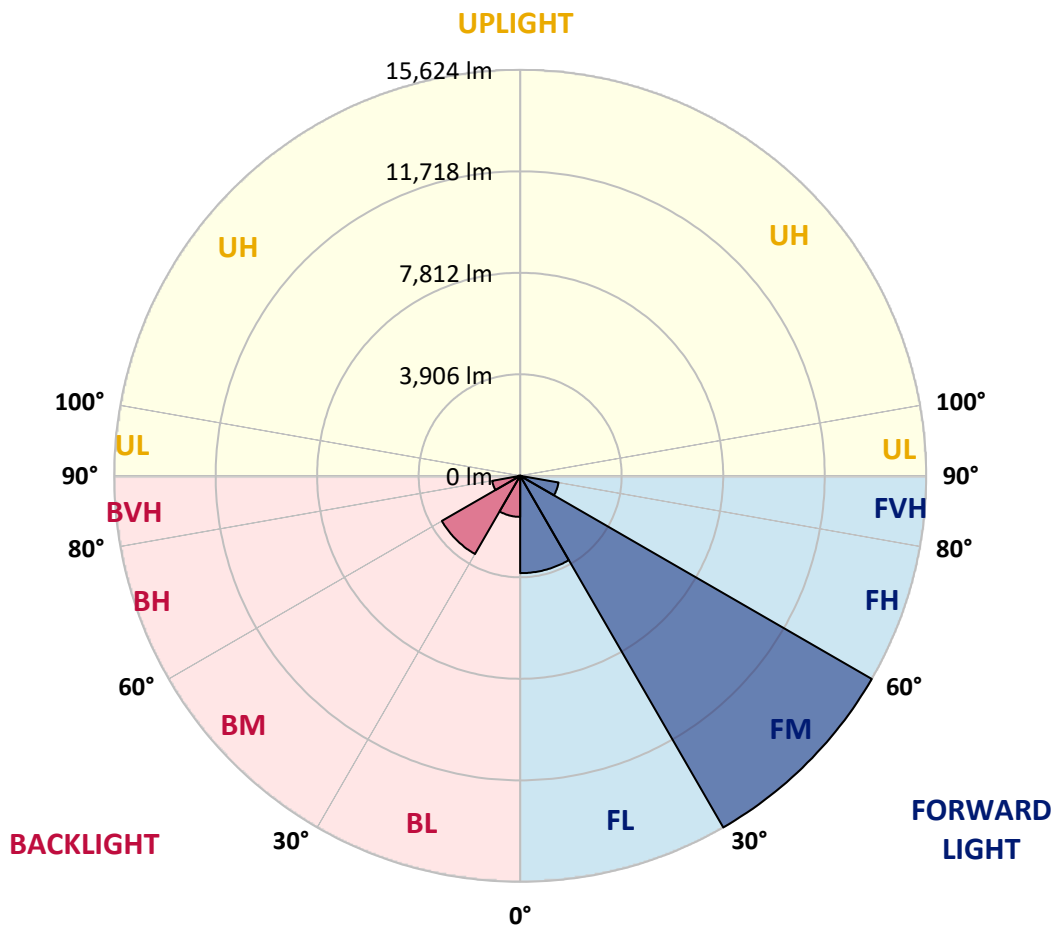
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3746.0	13.8			
FM (30°-60°)	15624.1	57.6			
FH (60°-80°)	1498.0	5.5			G1/1800
FVH (80°-90°)	52.4	0.2			G1/100
BL (0°-30°)	1580.5	5.8	B3/2500		
BM (30°-60°)	3476.9	12.8	B3/5000		
BH (60°-80°)	1095.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	64.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8
2.5°	4859.1	4828.9	4738.3	4708.0	4600.6	4405.8	4338.6	4140.5	4056.6	3979.3	3888.7
5°	6145.3	6004.2	5994.2	5822.9	5574.4	5430.0	5000.2	4711.4	4446.1	4311.8	4063.3
7.5°	6964.7	6968.0	6968.0	6827.0	6628.9	6262.8	5876.6	5356.1	4956.5	4758.4	4335.3
10°	7743.7	7676.6	7639.6	7626.2	7491.9	7135.9	6722.9	6078.1	5530.8	5299.1	4540.1
12.5°	8294.5	8237.4	8321.3	8277.7	8180.3	7948.6	7559.0	6823.6	6138.6	5826.3	4869.2
15°	8556.4	8596.7	8663.8	8784.7	8741.1	8653.8	8223.9	7589.3	6793.4	6440.8	5161.4
17.5°	8959.4	8848.5	8929.1	9080.3	9201.1	9160.8	8915.7	8143.3	7441.5	7008.3	5554.3
20°	9241.4	9177.6	9217.9	9392.6	9483.2	9711.6	9584.0	8868.7	8062.8	7606.1	6017.7
22.5°	10047.4	9953.4	9822.4	9849.3	9882.8	10044.0	10074.2	9664.6	8784.7	8301.2	6457.6
25°	11041.4	10954.1	10799.6	10641.8	10544.4	10514.2	10618.3	10289.2	9476.5	8976.2	6931.1
27.5°	12136.1	11988.3	11891.0	11565.2	11303.3	11263.0	11212.6	11034.7	10295.9	9755.2	7465.0
30°	13200.6	13083.1	12952.1	12431.6	12159.6	12116.0	11867.5	11917.8	11185.8	10584.7	8069.5
32.5°	14006.6	14016.6	13717.8	13324.9	13069.7	12837.9	12747.3	12891.7	12327.5	11844.0	8744.4
35°	14658.0	14688.2	14402.8	14046.9	13771.5	13932.7	13892.4	13959.5	13690.9	13099.9	9530.2
37.5°	15292.7	15141.6	14836.0	14664.7	14520.3	14785.6	15128.2	15185.2	15235.6	14540.5	10443.6
40°	15396.8	15410.2	15232.3	15353.1	15171.8	15571.4	16367.3	16293.4	16498.3	15890.4	11434.3
42.5°	15249.0	15279.3	15349.8	15521.0	15957.6	16437.8	17619.9	17317.6	17566.1	17025.5	12398.0
45°	15007.3	14883.0	14970.3	15621.8	16377.4	17445.2	18765.0	18529.9	18449.3	17996.0	13546.5
47.5°	13852.1	13979.7	14251.7	15054.3	16189.3	17619.9	19577.6	19523.9	19765.7	19446.6	14590.9
50°	12250.3	12199.9	12723.8	13627.1	15091.2	17277.3	19534.0	20020.9	20541.4	20098.1	15057.6
52.5°	9174.3	9442.9	9892.9	11014.5	13103.2	15410.2	18580.3	19392.9	19816.0	19722.0	14681.5
55°	5799.4	5880.0	6152.0	7485.2	9365.7	12367.8	15927.4	17811.3	18566.8	18919.4	14335.6
57.5°	2817.4	2666.3	2998.8	4070.0	5409.9	8318.0	12283.9	15514.3	17156.4	17794.5	13583.4
60°	1470.8	1527.9	1658.9	2041.7	2797.3	4318.5	7656.4	10339.5	12848.0	13828.6	10295.9
62.5°	1219.0	1239.1	1326.4	1517.9	1860.4	2485.0	3908.8	5040.5	6551.6	7434.8	5856.5
65°	1034.3	1044.4	1138.4	1266.0	1484.3	1749.6	2011.5	2105.5	2548.8	2615.9	2082.0
67.5°	863.0	873.1	973.8	1094.7	1235.8	1306.3	1373.5	1366.7	1417.1	1397.0	1393.6
70°	664.9	675.0	779.1	906.7	977.2	936.9	1145.1	1192.1	1212.3	1229.1	1255.9
72.5°	480.2	500.4	580.9	671.6	634.7	728.7	943.6	1014.1	1041.0	1051.1	1084.7
75°	349.2	356.0	376.1	349.2	403.0	507.1	664.9	752.2	785.8	795.9	846.2
77.5°	154.5	157.8	161.2	201.5	258.6	315.7	396.3	466.8	513.8	527.2	540.7
80°	80.6	84.0	104.1	137.7	184.7	231.7	288.8	329.1	359.3	362.7	376.1
82.5°	50.4	53.7	73.9	97.4	131.0	171.3	211.6	245.1	268.6	272.0	275.4
85°	23.5	30.2	43.7	60.4	87.3	110.8	114.2	97.4	104.1	107.5	100.7
87.5°	6.7	10.1	13.4	10.1	13.4	13.4	16.8	20.1	20.1	20.1	23.5
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°	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8
2.5°	3838.3	3808.1	3690.5	3646.9	3532.7	3552.8	3492.4	3489.0	3475.6	3472.3	3468.9
5°	3932.3	3838.3	3697.2	3589.8	3526.0	3519.3	3475.6	3475.6	3489.0	3499.1	3475.6
7.5°	4086.8	3979.3	3740.9	3640.2	3583.1	3573.0	3542.8	3519.3	3549.5	3539.4	3512.6
10°	4264.8	4076.7	3824.9	3737.5	3643.5	3620.0	3620.0	3630.1	3579.7	3596.5	3569.6
12.5°	4462.9	4211.0	3932.3	3831.6	3720.8	3707.3	3700.6	3626.7	3653.6	3640.2	3573.0
15°	4714.7	4365.5	4070.0	3898.7	3804.7	3744.3	3657.0	3643.5	3626.7	3593.1	3562.9
17.5°	4986.8	4533.4	4133.8	3918.9	3777.8	3734.2	3667.0	3596.5	3546.1	3552.8	3529.3
20°	5218.5	4687.9	4157.3	3939.0	3757.7	3673.7	3569.6	3526.0	3472.3	3468.9	3465.5
22.5°	5493.8	4896.1	4190.9	3885.3	3697.2	3609.9	3539.4	3462.2	3425.2	3378.2	3401.7
25°	5822.9	4976.7	4197.6	3855.1	3653.6	3499.1	3462.2	3378.2	3364.8	3297.6	3311.1
27.5°	6061.3	5020.3	4143.9	3761.1	3552.8	3435.3	3368.2	3307.7	3284.2	3233.8	3220.4
30°	6380.4	5087.5	4029.7	3643.5	3452.1	3321.1	3280.8	3267.4	3200.3	3146.5	3139.8
32.5°	6743.0	5131.1	3955.8	3522.6	3348.0	3247.3	3267.4	3203.6	3119.7	3072.6	3059.2
35°	7031.8	5147.9	3771.1	3384.9	3277.5	3213.7	3190.2	3176.7	3055.9	3012.2	2978.6
37.5°	7471.7	5111.0	3616.7	3287.6	3200.3	3176.7	3156.6	3065.9	2928.2	2864.4	2817.4
40°	7985.5	5100.9	3418.5	3149.9	3126.4	3153.2	3092.8	2951.8	2760.3	2689.8	2656.2
42.5°	8479.2	5171.4	3294.3	3076.0	3045.8	3055.9	2971.9	2760.3	2666.3	2626.0	2572.3
45°	9305.2	5319.2	3089.4	2961.8	2948.4	2941.7	2840.9	2619.3	2565.6	2515.2	2505.1
47.5°	10050.7	5221.8	2958.5	2844.3	2857.7	2820.8	2605.9	2535.4	2474.9	2424.5	2407.7
50°	10094.4	4990.1	2773.8	2753.6	2757.0	2693.2	2488.3	2441.3	2364.1	2330.5	2307.0
52.5°	9866.0	4610.6	2602.5	2609.2	2619.3	2515.2	2343.9	2310.4	2246.6	2199.5	2186.1
55°	9224.6	4019.6	2434.6	2461.5	2488.3	2290.2	2236.5	2152.5	2102.2	2035.0	2038.4
57.5°	8126.6	3237.2	2199.5	2243.2	2300.3	2082.0	2041.7	1937.6	1863.7	1810.0	1803.3
60°	5446.8	2303.6	1846.9	1863.7	1991.3	1904.0	1900.7	1796.6	1695.8	1648.8	1622.0
62.5°	3213.7	1759.6	1595.1	1578.3	1574.9	1625.3	1709.3	1672.3	1541.4	1450.7	1477.6
65°	1682.4	1521.2	1484.3	1427.2	1393.6	1380.2	1444.0	1460.8	1373.5	1276.1	1269.4
67.5°	1413.8	1413.8	1383.5	1363.4	1316.4	1259.3	1219.0	1165.3	1151.8	1125.0	1091.4
70°	1286.1	1319.7	1309.7	1262.6	1222.3	1158.5	1054.4	967.1	883.2	853.0	873.1
72.5°	1121.6	1155.2	1155.2	1131.7	1077.9	980.6	879.8	779.1	708.6	654.8	648.1
75°	863.0	879.8	920.1	893.2	822.7	762.3	658.2	554.1	486.9	436.6	426.5
77.5°	550.7	577.6	577.6	574.2	523.9	466.8	399.6	325.7	275.4	238.4	228.3
80°	366.0	382.8	396.3	382.8	349.2	305.6	255.2	204.8	167.9	137.7	131.0
82.5°	268.6	288.8	298.9	285.4	251.9	218.3	181.3	144.4	107.5	84.0	77.2
85°	104.1	107.5	120.9	144.4	141.0	137.7	110.8	80.6	60.4	43.7	40.3
87.5°	26.9	23.5	26.9	26.9	23.5	20.1	20.1	20.1	20.1	10.1	13.4
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)