

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: P534416

Luminaire Tested: **GALN-SA9D-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50287 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 552
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

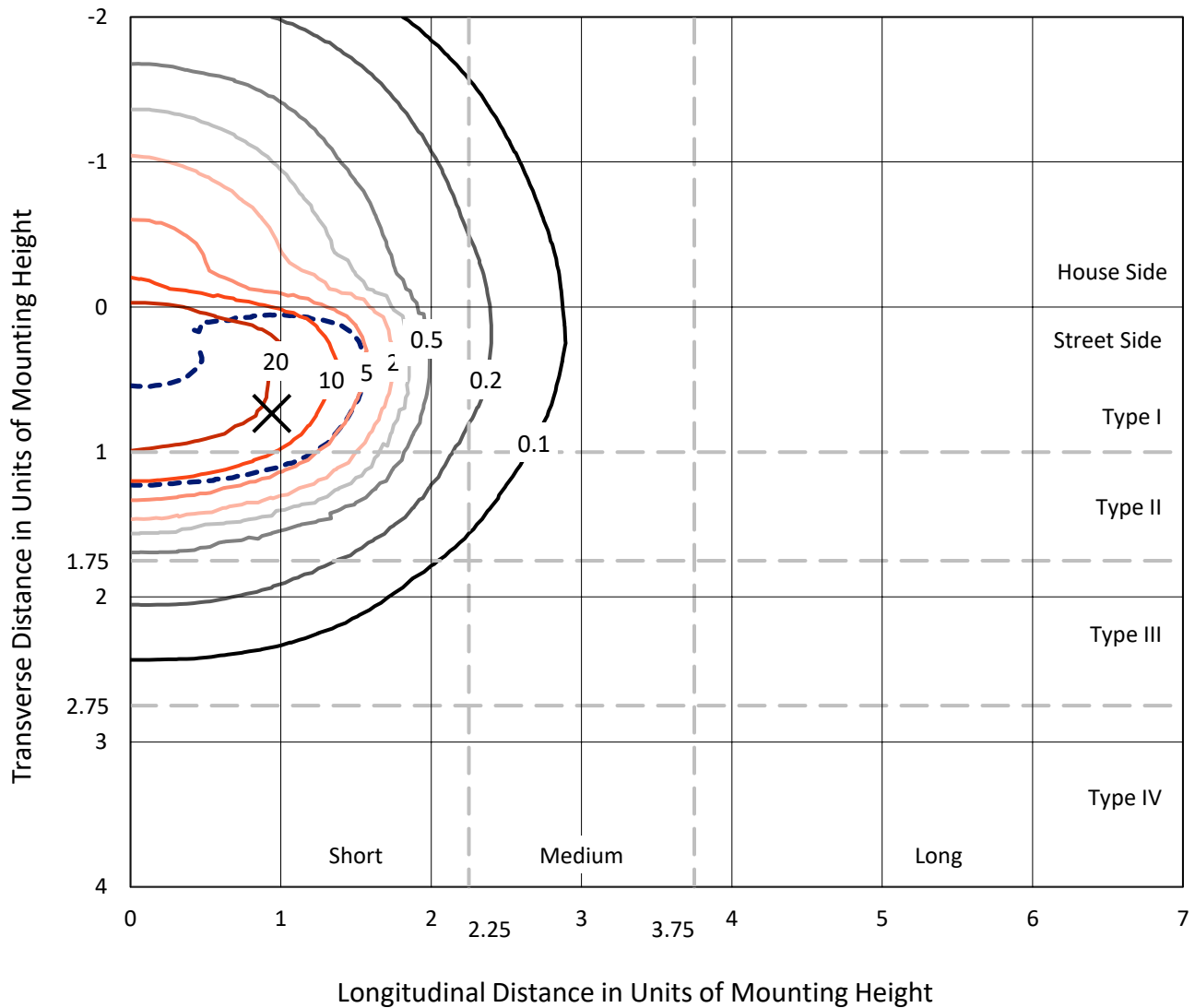


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Iso-Footcandle Lines of Horizontal Illumination

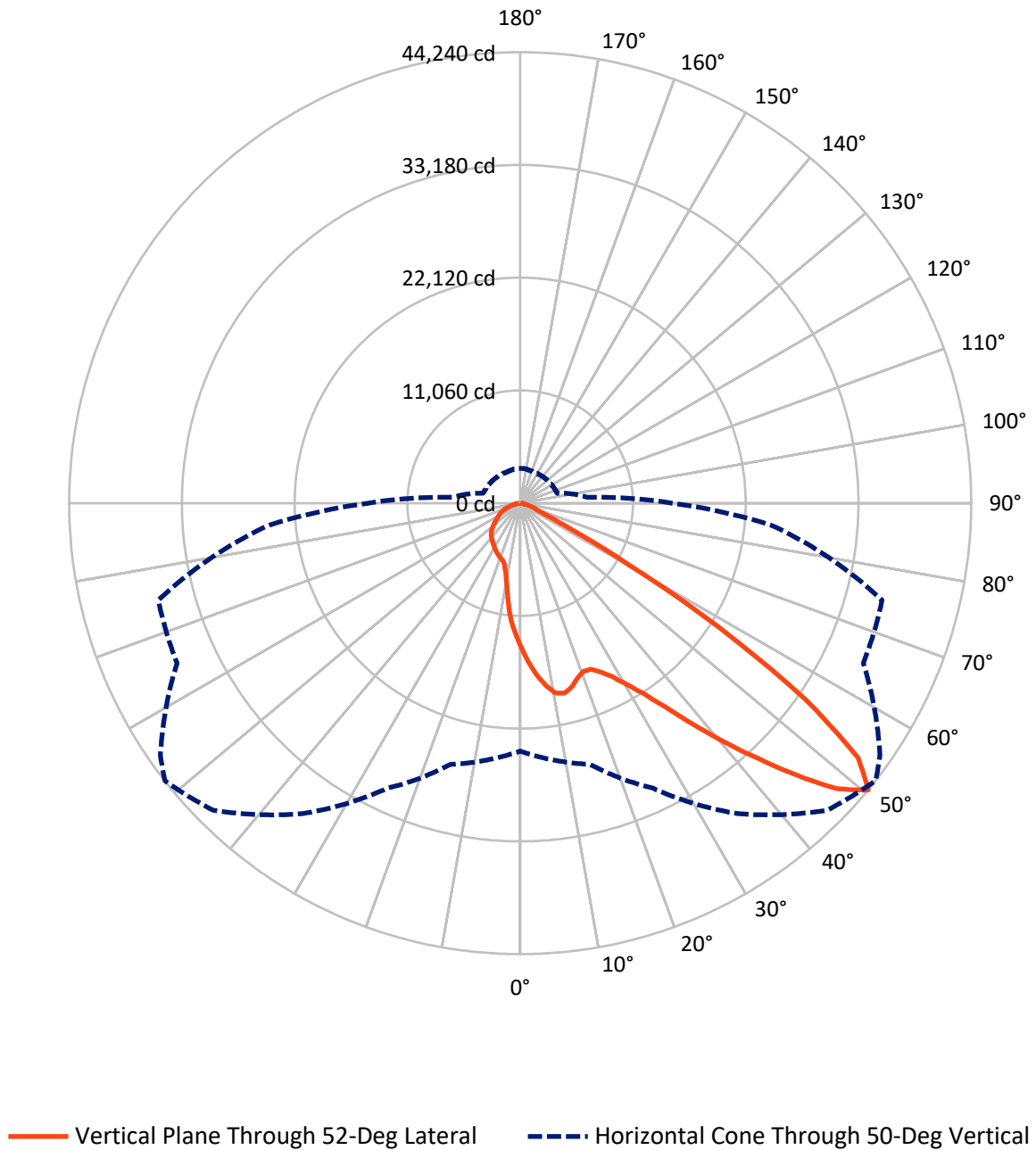
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9452.8	0.0	9452.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	40834.2	0.0	40834.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	50287.0	0.0	50287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1306.5	2.6
10°-20°	3501.8	7.0
20°-30°	5898.6	11.7
30°-40°	9898.4	19.7
40°-50°	15142.0	30.1
50°-60°	11039.8	22.0
60°-70°	2456.9	4.9
70°-80°	886.2	1.8
80°-90°	156.9	0.3
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°	50287.0	100.0
0°-180°	50287.0	100.0

Coefficient of Utilization



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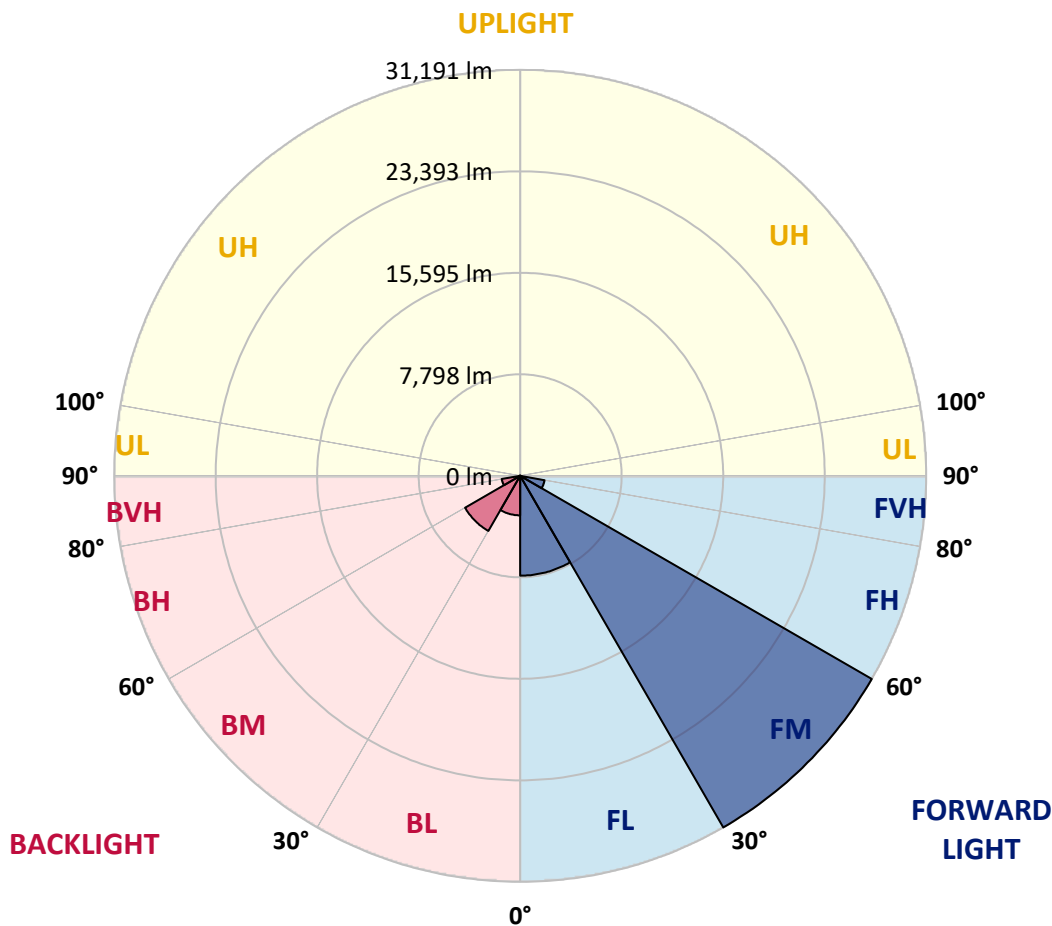
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7670.5	15.3			
FM	(30°-60°)	31190.6	62.0			
FH	(60°-80°)	1902.9	3.8			G2/5000
FVH	(80°-90°)	70.3	0.1			G1/100
BL	(0°-30°)	3036.4	6.0	B4/5000		
BM	(30°-60°)	4889.6	9.7	B3/5000		
BH	(60°-80°)	1440.2	2.9	B3/2500		G3/2500
BVH	(80°-90°)	86.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1
2.5°	16690.1	16368.9	16405.3	16175.0	15926.5	15853.8	15599.2	15356.8	15175.0	14787.2	14429.6
5°	18241.5	18144.6	17999.1	17817.3	17629.4	17168.9	16908.3	16605.3	15938.6	15338.7	14744.7
7.5°	18465.8	18447.6	18526.4	18526.4	18593.0	18417.3	18047.6	17835.5	17126.4	16150.7	15047.8
10°	16890.1	16944.6	17326.4	17823.4	18514.3	18993.0	18932.4	18877.9	18102.2	16768.9	15405.3
12.5°	15635.6	15514.4	15738.6	16162.9	17199.2	18356.7	19138.5	19144.5	18944.5	17756.7	15665.9
15°	14926.6	15011.4	15072.0	15272.0	16053.8	17393.1	18768.8	19174.8	20053.6	18453.7	16078.0
17.5°	15381.1	15096.2	15084.1	15132.6	15532.6	16538.6	18084.0	18780.9	20659.6	19350.6	16587.1
20°	15975.0	15968.9	15799.2	15738.6	15732.6	16629.5	17635.5	18580.9	20980.8	20514.2	17102.2
22.5°	17017.4	17017.4	16738.6	16605.3	16320.4	17053.7	17696.1	18338.5	21514.1	21314.1	17350.7
25°	18762.7	18477.9	17999.1	17671.9	17508.2	17768.8	18338.5	18914.2	21980.8	22162.6	17865.8
27.5°	20374.8	19926.3	19690.0	19126.3	18908.2	18756.7	19277.9	19859.6	22526.2	23483.7	18144.6
30°	22205.0	22126.2	21702.0	20974.7	20435.4	20156.6	20635.4	21211.1	23526.1	24835.2	18787.0
32.5°	25477.6	24762.4	24186.7	23295.8	22417.1	21823.2	22295.9	22677.7	25186.7	26247.2	19490.0
35°	29010.7	28780.4	27786.5	26180.6	24835.2	24301.9	24580.6	24865.5	27119.9	28404.7	20671.7
37.5°	32483.3	32168.1	31350.0	29998.5	28362.3	27277.5	27477.5	27810.8	29289.5	31313.6	22114.1
40°	34980.1	34592.3	34180.2	33980.2	32356.0	30871.2	30756.1	30840.9	32222.7	34040.8	23714.0
42.5°	35161.9	35640.7	35768.0	36574.0	36192.2	34974.1	34265.0	34283.2	35022.5	36737.6	25332.1
45°	34780.1	34337.7	35277.1	37477.0	38737.5	39307.2	38113.3	37961.8	36755.8	38301.2	26138.1
47.5°	30774.3	30895.5	32483.3	35961.9	39604.1	42149.5	41870.7	41367.7	37683.0	38246.6	26010.9
50°	24326.1	25059.4	26532.0	30865.2	37180.0	42597.9	44240.3	43076.7	37131.5	36743.7	24714.0
52.5°	16199.2	16502.2	17471.9	23065.6	29895.5	38076.9	41513.1	41779.8	36622.5	34774.1	23071.6
55°	7211.8	7187.5	8551.1	12047.9	18756.7	28974.4	33919.6	35543.7	34665.0	32768.1	21471.7
57.5°	3054.4	3157.4	3715.0	5205.8	9223.8	17484.0	22980.7	24404.9	26659.3	26907.8	16471.9
60°	2066.6	2078.7	2230.2	2605.9	3860.4	8211.7	12054.0	13763.0	15375.0	15265.9	8739.0
62.5°	1624.2	1666.6	1781.7	1933.2	2290.8	3727.1	5393.7	6345.1	6448.2	5424.0	3315.0
65°	1387.8	1393.9	1509.0	1636.3	1793.9	2169.6	2599.9	2648.4	2678.7	2581.7	2436.2
67.5°	1145.4	1157.5	1248.4	1393.9	1539.3	1660.5	1781.7	1842.3	1981.7	2254.4	2218.1
70°	909.0	927.2	1006.0	1127.2	1260.5	1333.3	1484.8	1539.3	1666.6	1878.7	1963.5
72.5°	690.9	696.9	763.6	848.4	969.7	1042.4	1169.6	1230.2	1315.1	1496.9	1575.7
75°	496.9	515.1	563.6	606.0	624.2	672.7	793.9	860.6	981.8	1060.6	1066.6
77.5°	260.6	272.7	284.8	284.8	345.4	436.3	515.1	551.5	636.3	696.9	666.6
80°	103.0	109.1	139.4	187.9	242.4	315.1	369.7	387.9	460.6	496.9	515.1
82.5°	60.6	66.7	90.9	133.3	175.7	224.2	266.7	284.8	333.3	375.7	387.9
85°	30.3	36.4	54.5	84.8	115.1	139.4	133.3	127.3	127.3	121.2	127.3
87.5°	12.1	12.1	18.2	18.2	18.2	24.2	30.3	30.3	30.3	36.4	36.4
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°	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1	14175.1
2.5°	14193.3	13950.8	13726.6	13314.5	12866.0	12738.8	12217.6	12029.7	11896.4	11738.8	11690.3
5°	14266.0	13944.8	13223.6	12393.3	11732.8	10884.3	10326.8	9726.8	9290.5	9181.4	9151.1
7.5°	14417.5	13866.0	12623.6	11369.1	10017.7	8866.2	7987.5	7514.8	7096.6	7072.4	7030.0
10°	14587.2	13629.6	11969.1	9999.5	8272.3	7205.7	6678.5	6472.4	6369.4	6345.1	6333.0
12.5°	14726.6	13581.2	11235.8	8666.2	7036.0	6393.6	6236.1	6217.9	6260.3	6272.4	6296.7
15°	14787.2	13387.2	10351.0	7472.4	6266.4	6030.0	6096.7	6169.4	6199.7	6278.5	6217.9
17.5°	14902.3	13138.8	9260.2	6527.0	5836.1	5878.5	5993.6	6078.5	6127.0	6181.5	6102.7
20°	14962.9	12914.5	8236.0	5963.3	5684.6	5763.4	5920.9	5987.6	6048.2	6072.4	5981.5
22.5°	14908.4	12453.9	7333.0	5508.8	5539.1	5642.2	5781.5	5854.3	5817.9	5720.9	5666.4
25°	14762.9	11805.5	6393.6	5217.9	5333.1	5514.9	5624.0	5569.4	5502.8	5448.2	5430.0
27.5°	14756.9	11011.6	5714.9	4951.3	5157.3	5405.8	5369.4	5321.0	5351.3	5308.8	5260.4
30°	14787.2	10241.9	5157.3	4799.8	5030.1	5151.3	5193.7	5145.2	5181.6	5102.8	5127.0
32.5°	14629.6	9490.4	4793.7	4624.0	4878.6	4872.5	5011.9	5048.2	4963.4	4799.8	4824.0
35°	14696.3	8884.4	4484.6	4545.2	4708.9	4708.9	4817.9	4775.5	4551.3	4454.3	4478.6
37.5°	15156.8	8290.5	4333.1	4436.1	4545.2	4593.7	4557.4	4375.5	4321.0	4321.0	4333.1
40°	15593.2	7781.4	4242.2	4411.9	4393.7	4424.0	4157.4	4175.6	4175.6	4181.6	4151.3
42.5°	15981.0	7436.0	4169.5	4266.5	4296.8	4139.2	3975.6	3957.4	3999.8	3993.7	3969.5
45°	16120.4	7151.2	4066.5	4102.8	4127.1	3866.5	3787.7	3751.3	3799.8	3818.0	3842.2
47.5°	15587.1	6914.8	3951.3	3878.6	3830.1	3660.4	3557.4	3490.7	3551.3	3654.4	3678.6
50°	14902.3	6605.7	3769.5	3630.1	3527.1	3454.4	3381.7	3315.0	3357.4	3430.1	3412.0
52.5°	13890.2	6120.9	3539.2	3393.8	3218.0	3236.2	3169.5	3133.2	3157.4	3157.4	3139.2
55°	12447.9	5030.1	3151.4	3048.3	2902.9	2951.4	2963.5	2915.0	2866.5	2909.0	2872.6
57.5°	8496.6	3551.3	2812.0	2812.0	2666.5	2733.2	2727.1	2612.0	2496.8	2509.0	2484.7
60°	4914.9	2830.2	2593.8	2569.6	2418.1	2472.6	2484.7	2405.9	2230.2	2242.3	2218.1
62.5°	2793.8	2418.1	2266.6	2230.2	2199.9	2248.4	2248.4	2145.4	1993.8	2006.0	1981.7
65°	2375.6	2242.3	2024.1	2018.1	2006.0	2018.1	1969.6	1860.5	1727.2	1672.6	1678.7
67.5°	2157.5	2072.6	1860.5	1806.0	1769.6	1763.6	1672.6	1569.6	1509.0	1460.5	1454.5
70°	1890.8	1824.2	1666.6	1593.9	1557.5	1472.7	1381.8	1315.1	1230.2	1206.0	1230.2
72.5°	1496.9	1490.8	1430.2	1351.4	1272.7	1206.0	1127.2	1036.3	957.5	939.3	896.9
75°	1036.3	1048.4	1060.6	1048.4	981.8	896.9	806.0	733.3	636.3	581.8	569.7
77.5°	678.8	696.9	715.1	690.9	648.5	569.7	509.1	418.2	345.4	303.0	297.0
80°	496.9	521.2	533.3	515.1	466.6	406.0	339.4	266.7	212.1	175.7	175.7
82.5°	381.8	406.0	418.2	387.9	339.4	290.9	242.4	187.9	145.4	115.1	109.1
85°	133.3	127.3	151.5	157.6	187.9	175.7	145.4	109.1	84.8	60.6	54.5
87.5°	36.4	36.4	42.4	42.4	36.4	30.3	30.3	30.3	24.2	18.2	18.2
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)