

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: LUMARK

Report Number: P885341

Luminaire Tested: **NAV-SB6C-827-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36504 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

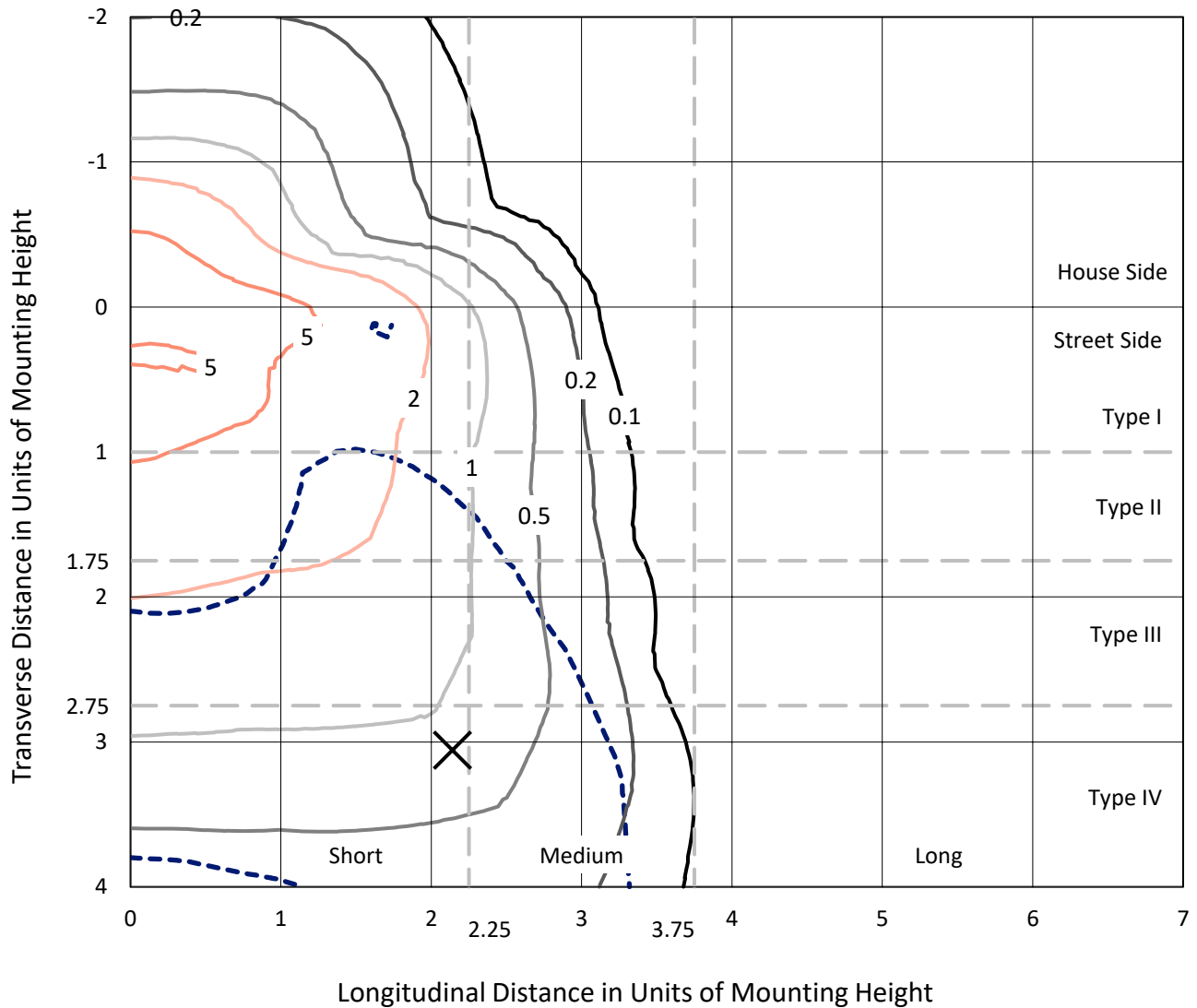
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

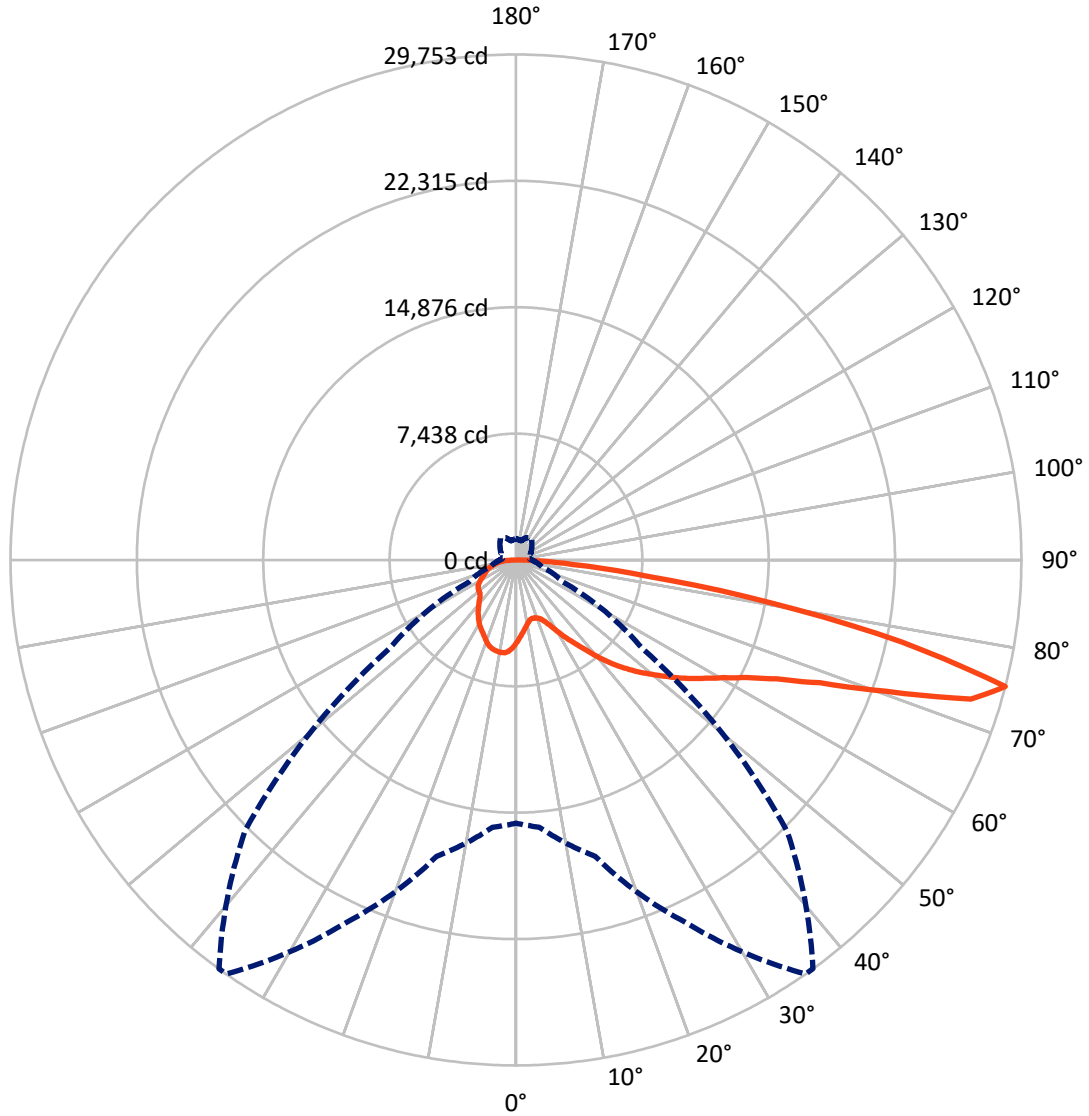
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8687.0	0.0	8687.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27817.0	0.0	27817.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	36504.0	0.0	36504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.6	1.3
10°-20°	1328.5	3.6
20°-30°	2230.8	6.1
30°-40°	3467.0	9.5
40°-50°	5146.0	14.1
50°-60°	7104.3	19.5
60°-70°	8619.2	23.6
70°-80°	7123.1	19.5
80°-90°	1024.5	2.8
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°	36504.0	100.0
0°-180°	36504.0	100.0

Coefficient of Utilization



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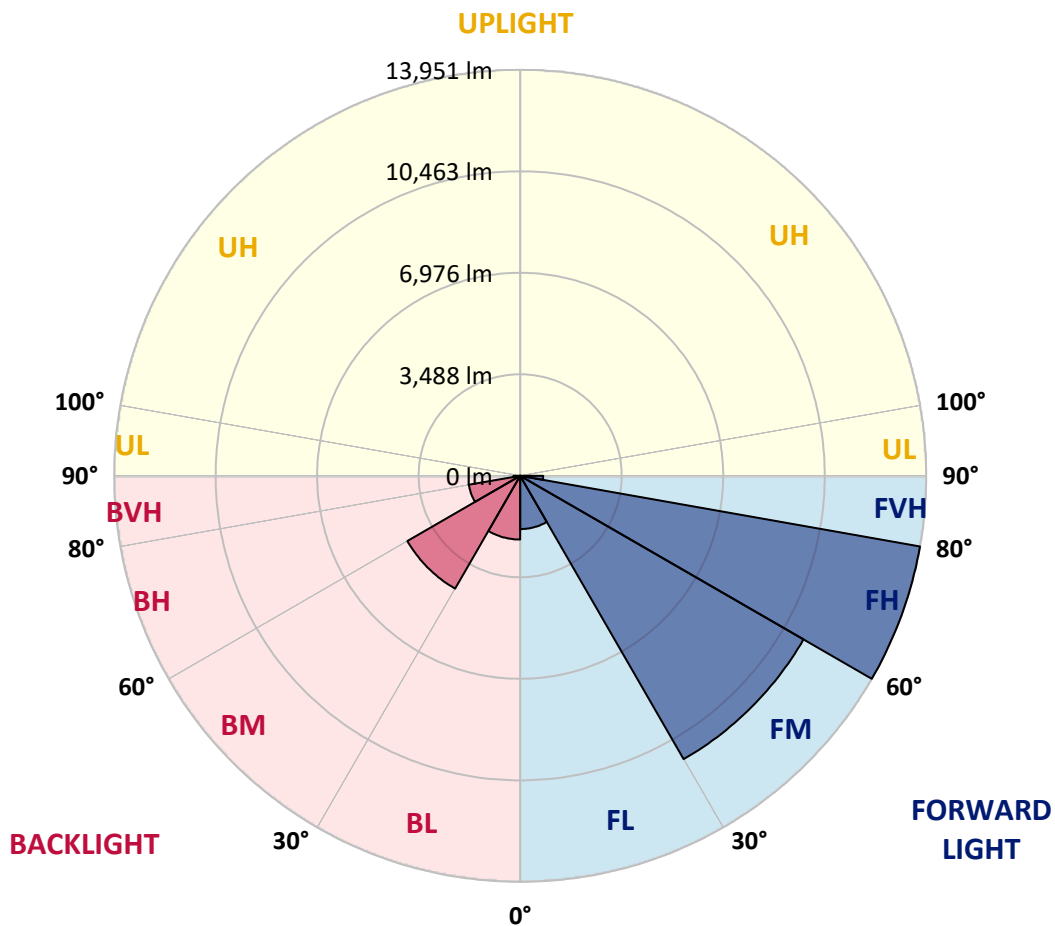
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1830.6	5.0			
FM (30°-60°)	11241.3	30.8			
FH (60°-80°)	13951.3	38.2			G5
FVH (80°-90°)	793.8	2.2			G5
BL (0°-30°)	2189.3	6.0	B3/2500		
BM (30°-60°)	4476.1	12.3	B3/5000		
BH (60°-80°)	1791.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	230.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4
2.5°	4485.5	4513.1	4525.0	4519.1	4548.7	4544.7	4586.2	4637.5	4708.5	4777.6	4878.2
5°	4140.2	4169.8	4195.4	4219.1	4276.3	4294.1	4359.2	4457.9	4588.1	4720.3	4886.1
7.5°	3818.5	3844.2	3883.6	3927.0	4023.7	4041.5	4150.0	4304.0	4485.5	4678.9	4907.8
10°	3556.0	3581.7	3623.1	3672.5	3792.9	3814.6	3952.7	4157.9	4394.7	4639.4	4931.5
12.5°	3443.6	3451.5	3475.1	3524.5	3629.1	3642.9	3794.8	4029.7	4305.9	4609.8	4967.0
15°	3437.6	3453.4	3455.4	3481.1	3567.9	3573.8	3713.9	3946.8	4250.7	4603.9	5020.3
17.5°	3496.8	3508.7	3490.9	3506.7	3579.7	3589.6	3700.1	3907.3	4232.9	4629.6	5111.1
20°	3654.7	3664.6	3611.3	3589.6	3642.9	3650.8	3759.3	3933.0	4250.7	4682.9	5235.4
22.5°	3990.2	3996.1	3865.9	3777.1	3781.0	3785.0	3879.7	4037.6	4319.7	4779.5	5393.3
25°	4513.1	4509.2	4302.0	4130.3	4031.6	4009.9	4073.1	4207.3	4436.2	4907.8	5596.5
27.5°	5124.9	5095.3	4888.1	4631.5	4416.4	4384.9	4371.1	4428.3	4601.9	5077.5	5845.2
30°	5815.6	5788.0	5565.0	5229.5	4931.5	4880.2	4749.9	4720.3	4848.6	5308.4	6190.5
32.5°	6573.4	6555.6	6289.2	5882.7	5484.0	5424.8	5205.8	5126.9	5227.5	5657.7	6672.0
35°	7208.8	7193.0	6972.0	6553.6	6066.2	5993.2	5770.2	5681.4	5732.7	6105.7	7301.5
37.5°	7783.0	7775.2	7585.7	7256.2	6752.9	6664.1	6413.5	6383.9	6374.0	6695.7	8065.2
40°	8315.9	8296.1	8098.8	7925.1	7552.2	7471.3	7250.2	7224.6	7149.6	7421.9	8929.6
42.5°	8905.9	8854.6	8568.5	8487.5	8386.9	8319.8	8187.6	8191.5	8025.8	8240.9	9845.2
45°	9387.4	9357.8	9063.8	9016.4	9125.0	9097.3	9211.8	9241.4	8919.7	9099.3	10796.4
47.5°	9904.4	9876.8	9628.2	9594.6	9888.7	9896.5	10301.1	10311.0	9792.0	9991.3	11749.6
50°	10541.8	10502.4	10255.7	10297.1	10626.7	10656.3	11396.3	11329.2	10595.1	10897.1	12694.8
52.5°	10962.2	10985.9	10932.6	10999.7	11449.6	11477.2	12473.8	12302.1	11390.4	11791.0	13622.3
55°	11272.0	11319.4	11485.1	11639.1	12317.9	12345.5	13490.1	13227.6	12049.5	12619.8	14494.5
57.5°	11670.6	11603.5	11913.4	12213.3	13142.8	13215.8	14478.8	14119.6	12633.6	13334.2	15092.5
60°	12242.9	12195.5	12436.3	12880.3	14066.3	14182.7	15524.7	14922.8	13061.9	13900.6	15208.9
62.5°	13403.3	13284.9	13322.4	13715.1	15230.6	15384.5	16704.7	15623.3	13275.0	14121.6	14585.3
65°	15137.9	14934.6	14745.2	15017.5	16870.5	17022.5	18036.8	16173.9	13196.1	13693.3	12929.6
67.5°	17322.4	17121.1	16888.3	17144.8	19285.9	19406.3	19680.6	16483.7	12574.4	12043.6	10003.1
70°	19124.1	19049.1	19327.4	20383.1	23143.9	23147.9	21788.2	16227.2	10871.4	8538.9	5788.0
72.5°	18885.3	18839.9	20306.2	23570.2	28006.3	27901.8	23783.3	14285.4	7323.2	3852.1	2168.8
75°	15493.1	15787.1	18058.5	23512.9	29752.8	29739.0	22561.8	9081.5	3029.2	1596.5	1120.9
77.5°	8308.0	8773.7	11723.9	17359.9	23226.8	23576.1	15862.1	3177.2	1300.5	1022.2	775.5
80°	2709.5	3116.0	4673.0	8838.8	15092.5	15027.4	6798.3	1247.2	890.0	724.2	536.8
82.5°	1150.5	1197.8	2087.8	4173.7	7745.6	7625.2	2164.8	716.3	625.6	495.3	331.5
85°	449.9	503.2	921.6	1930.0	3354.8	3281.7	781.5	355.2	400.6	323.6	197.3
87.5°	148.0	179.6	329.6	661.1	1043.9	1006.4	191.4	122.4	173.7	148.0	71.0
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°	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4	4864.4
2.5°	4905.8	4937.4	4974.9	5030.2	5077.5	5117.0	5158.4	5184.1	5194.0	5223.6	5221.6
5°	4941.4	5010.4	5103.2	5194.0	5282.8	5336.0	5383.4	5407.1	5428.8	5444.6	5448.5
7.5°	5000.6	5089.4	5235.4	5353.8	5428.8	5472.2	5503.8	5495.9	5503.8	5507.7	5513.7
10°	5051.9	5176.2	5349.9	5462.3	5519.6	5521.5	5513.7	5486.0	5472.2	5474.2	5478.1
12.5°	5113.1	5251.2	5438.7	5533.4	5549.2	5505.8	5472.2	5424.8	5407.1	5399.2	5395.2
15°	5195.9	5353.8	5535.4	5570.9	5531.4	5476.2	5418.9	5342.0	5302.5	5270.9	5280.8
17.5°	5296.6	5470.2	5610.3	5584.7	5499.8	5409.1	5316.3	5199.9	5119.0	5085.4	5087.4
20°	5436.7	5592.6	5667.6	5555.1	5426.8	5288.7	5130.8	4988.7	4913.7	4880.2	4876.2
22.5°	5606.4	5756.4	5722.8	5503.8	5322.2	5101.2	4903.9	4799.3	4761.8	4738.1	4742.1
25°	5809.7	5937.9	5762.3	5428.8	5150.5	4852.6	4700.6	4667.1	4649.3	4631.5	4631.5
27.5°	6074.1	6143.2	5791.9	5318.3	4882.2	4588.1	4532.9	4538.8	4532.9	4503.3	4509.2
30°	6423.4	6409.6	5819.5	5138.7	4574.3	4349.4	4353.3	4379.0	4382.9	4363.2	4373.0
32.5°	6883.2	6743.1	5833.3	4905.8	4280.3	4140.2	4144.1	4171.7	4191.5	4157.9	4173.7
35°	7439.7	7131.8	5811.6	4613.8	4053.3	3940.9	3911.3	3919.2	3925.1	3893.5	3915.2
37.5°	8088.9	7567.9	5714.9	4290.1	3865.9	3745.5	3682.3	3629.1	3597.5	3567.9	3587.6
40°	8801.3	8043.5	5537.3	3974.4	3656.7	3538.3	3443.6	3342.9	3236.4	3196.9	3214.7
42.5°	9547.3	8532.9	5322.2	3672.5	3415.9	3319.2	3218.6	3072.6	2912.7	2831.8	2841.7
45°	10320.8	9034.2	5111.1	3374.5	3169.3	3127.8	3011.4	2835.8	2662.1	2559.5	2551.6
47.5°	11078.6	9507.8	4801.3	3074.5	2938.4	2983.8	2893.0	2731.2	2537.8	2376.0	2358.2
50°	11802.8	9951.8	4294.1	2770.6	2750.9	2940.4	2853.5	2620.7	2399.6	2192.4	2174.7
52.5°	12521.2	10311.0	3644.9	2494.4	2650.3	2928.5	2802.2	2545.7	2275.3	2058.2	2034.6
55°	13130.9	10496.5	3019.3	2257.6	2504.2	2827.9	2741.0	2456.9	2099.7	1868.8	1849.1
57.5°	13478.2	10346.5	2498.3	2024.7	2302.9	2662.1	2636.4	2267.4	1890.5	1712.9	1689.2
60°	13328.3	9738.7	2072.1	1821.4	2111.5	2482.5	2454.9	2080.0	1730.7	1562.9	1539.2
62.5°	12501.4	8580.3	1734.6	1643.8	1937.9	2299.0	2273.3	1935.9	1608.3	1446.5	1420.8
65°	10835.9	6979.9	1472.1	1495.8	1762.2	2078.0	2115.5	1815.5	1511.6	1353.7	1328.1
67.5°	8264.6	5055.8	1266.9	1367.6	1590.6	1860.9	1969.4	1728.7	1430.7	1280.7	1257.0
70°	4710.5	2871.3	1093.3	1243.2	1438.6	1659.6	1857.0	1659.6	1343.9	1219.6	1203.8
72.5°	1785.9	1318.2	945.3	1118.9	1292.6	1489.9	1732.6	1551.1	1243.2	1150.5	1134.7
75°	953.1	803.2	795.3	972.9	1124.8	1324.1	1576.7	1444.5	1168.2	1215.6	1255.1
77.5°	649.2	568.3	665.0	832.8	941.3	1140.6	1411.0	1282.7	1012.3	1008.4	929.5
80°	449.9	402.6	540.7	671.0	728.2	959.1	1231.4	1101.2	824.9	769.6	736.1
82.5°	270.4	262.5	404.5	501.2	515.1	740.0	1020.2	923.5	674.9	588.1	592.0
85°	148.0	155.9	258.5	294.0	300.0	517.0	799.2	714.4	519.0	436.1	440.1
87.5°	41.4	53.3	94.7	116.4	144.1	268.4	475.6	424.3	260.5	181.6	181.6
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)