

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: P885468

Luminaire Tested: **NAV-SB6D-735-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-735-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

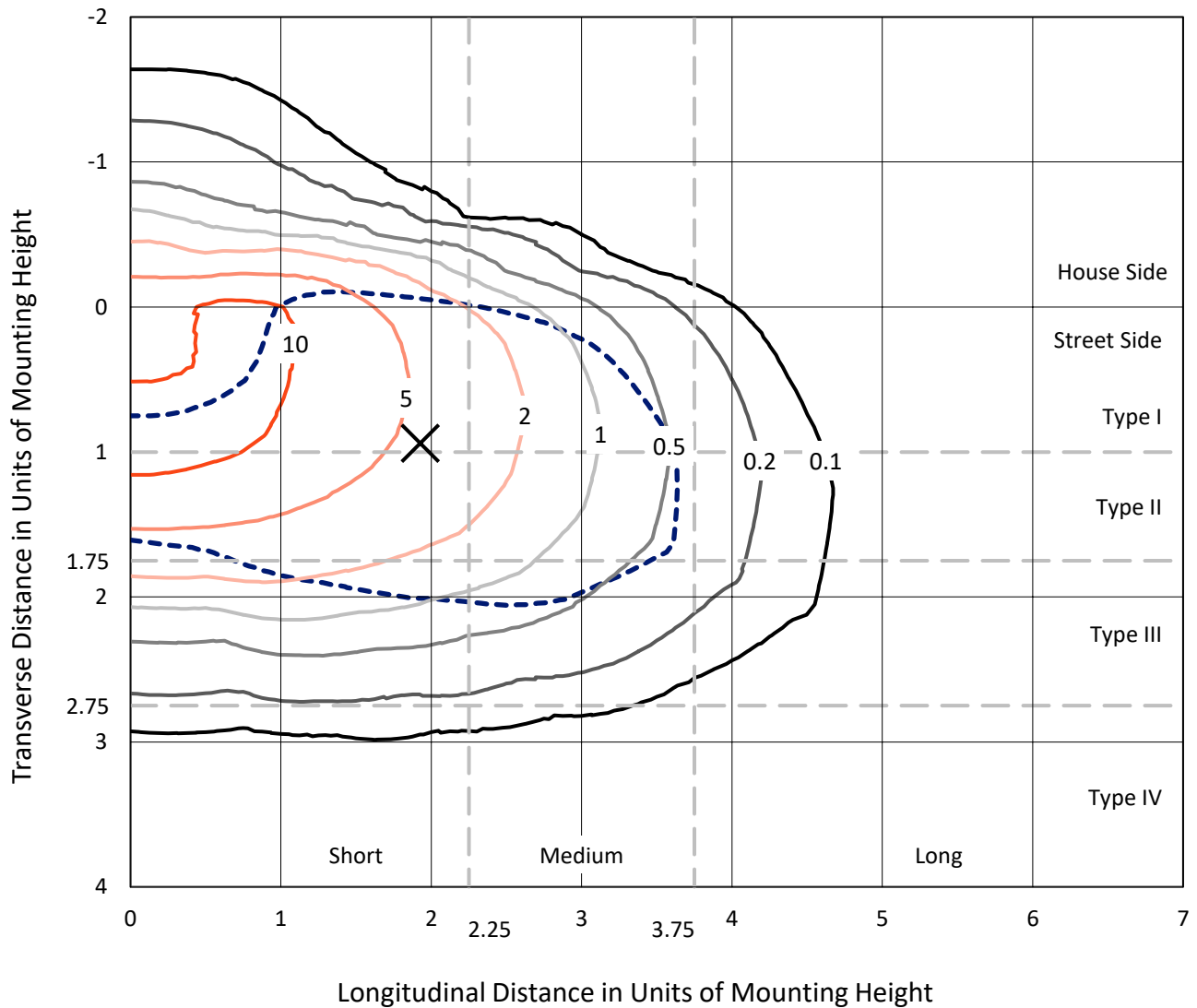
Lumens per Lamp: N/A  
Luminaire Lumens: 48441 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

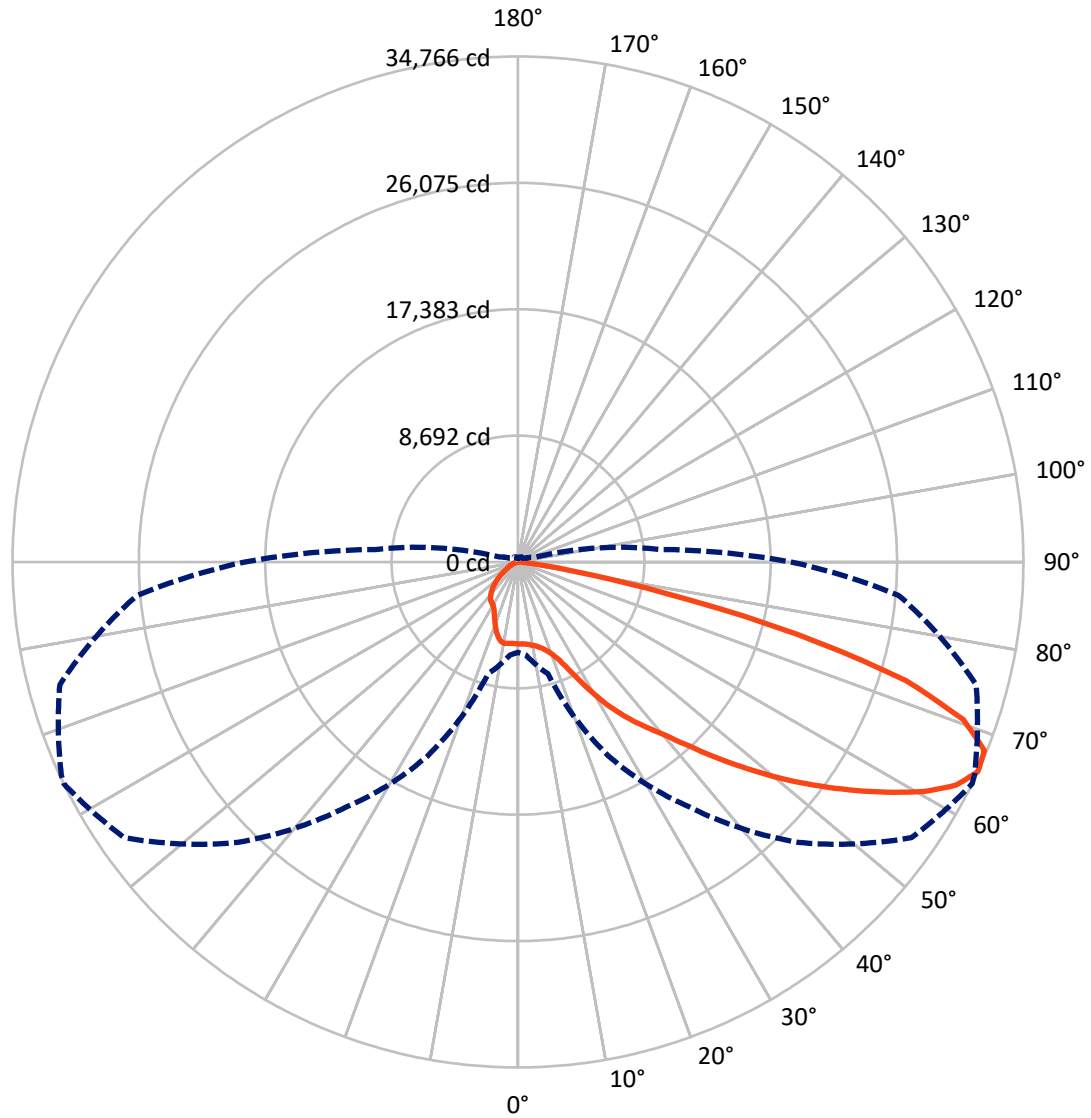
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6478.0	0.0	6478.0
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	41963.0	0.0	41963.0
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	48441.0	0.0	48441.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.8	1.1
10°-20°	1409.9	2.9
20°-30°	2671.6	5.5
30°-40°	5406.0	11.2
40°-50°	9209.2	19.0
50°-60°	12523.9	25.9
60°-70°	11760.5	24.3
70°-80°	4711.8	9.7
80°-90°	228.3	0.5
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°	48441.0	100.0
0°-180°	48441.0	100.0

**Coefficient of Utilization**



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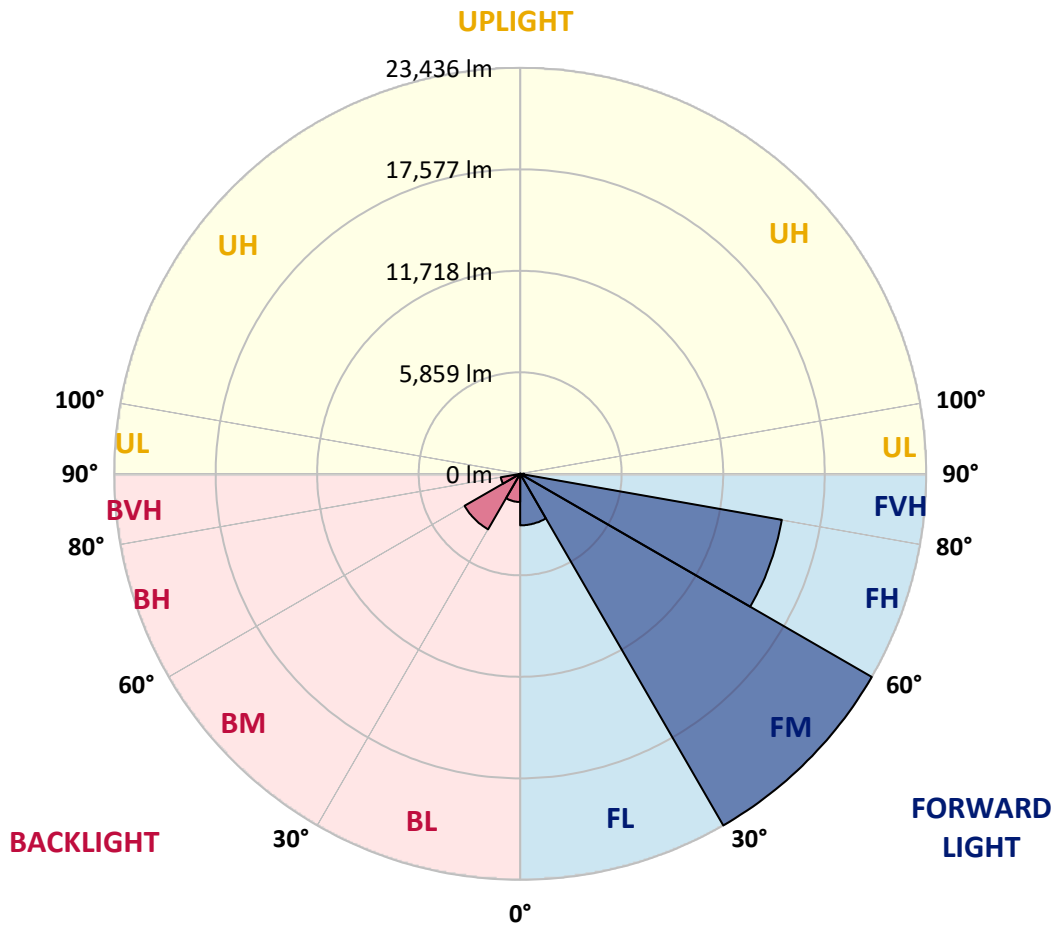
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2974.8	6.1			
FM (30°-60°)	23435.7	48.4			
FH (60°-80°)	15335.3	31.7			G5
FVH (80°-90°)	217.1	0.4			G2/225
BL (0°-30°)	1626.4	3.4	B3/2500		
BM (30°-60°)	3703.4	7.6	B3/5000		
BH (60°-80°)	1137.0	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2
2.5°	5614.7	5653.7	5643.9	5634.2	5630.9	5637.4	5640.7	5637.4	5637.4	5637.4	5640.7
5°	5507.5	5540.0	5540.0	5562.7	5595.2	5634.2	5663.4	5669.9	5676.4	5686.1	5682.9
7.5°	5303.0	5328.9	5348.4	5423.1	5504.3	5608.2	5695.9	5741.4	5747.8	5783.6	5796.6
10°	5163.3	5195.8	5228.3	5306.2	5423.1	5579.0	5728.4	5838.8	5855.0	5939.4	5978.4
12.5°	5156.8	5189.3	5231.5	5315.9	5452.3	5618.0	5799.8	5958.9	5988.2	6111.6	6192.7
15°	5225.0	5264.0	5303.0	5406.9	5553.0	5754.3	5949.2	6147.3	6176.5	6351.9	6439.5
17.5°	5364.7	5416.6	5445.8	5549.8	5705.6	5929.7	6186.2	6413.6	6439.5	6644.1	6754.5
20°	5640.7	5702.4	5712.1	5796.6	5949.2	6189.5	6494.7	6777.3	6809.7	7043.6	7167.0
22.5°	6212.2	6299.9	6222.0	6264.2	6400.6	6640.9	6972.1	7329.3	7374.8	7641.1	7751.5
25°	7218.9	7342.3	7141.0	7069.5	7128.0	7378.0	7793.7	8245.1	8297.0	8511.4	8566.6
27.5°	9196.6	9037.4	8732.2	8433.4	8258.1	8401.0	8868.6	9427.1	9492.1	9699.9	9635.0
30°	11369.1	11229.4	10817.0	10154.5	9738.9	9716.1	10148.0	10771.5	10846.2	11044.3	10846.2
32.5°	13544.8	13411.6	12963.5	12148.4	11427.5	11070.3	11369.1	12060.7	12099.7	12226.4	11934.1
35°	15684.8	15548.4	15100.3	14265.7	13379.2	12567.3	12508.9	13288.2	13301.2	13434.4	12999.2
37.5°	17837.8	17724.2	17246.8	16428.5	15554.9	14434.6	13892.3	14450.8	14467.0	14596.9	14145.6
40°	19373.8	19422.5	19094.6	18461.3	17711.2	16486.9	15444.5	15688.1	15590.6	15808.2	15538.7
42.5°	20692.3	20789.7	20503.9	20185.7	19750.5	18672.4	17366.9	17324.7	17168.9	17285.8	17006.5
45°	21832.1	21913.3	21656.7	21582.0	21572.3	20815.7	19468.0	19214.7	18997.1	18974.4	18639.9
47.5°	22251.0	22406.9	22517.3	22767.3	23254.4	22936.2	21640.5	21247.6	21004.0	20825.4	20296.1
50°	22410.1	22575.7	22952.4	23679.8	24832.7	24969.0	23803.2	23361.6	23062.8	22738.1	21958.7
52.5°	22195.8	22491.3	22997.9	24222.2	25894.5	26599.2	25878.3	25491.9	25150.9	24621.6	23465.5
55°	20932.6	21228.1	22264.0	24215.7	26423.9	27742.3	27839.7	27667.6	27284.4	26449.8	24683.3
57.5°	18269.7	18708.1	20348.0	23390.8	26414.1	28726.3	29762.2	29885.6	29456.9	28261.9	25641.3
60°	14580.7	15175.0	17175.4	21562.6	25599.0	29258.8	31447.6	32064.6	31609.9	30047.9	26417.4
62.5°	10174.0	10862.5	12755.7	18698.4	23735.0	28875.6	32678.3	33818.1	33473.9	31645.6	26716.1
65°	6205.7	6426.6	7952.8	14713.8	20565.6	27271.4	33058.3	34766.4	34652.7	32623.1	26274.5
67.5°	4133.9	4319.0	4757.4	10089.6	15964.1	24066.3	32149.0	34600.8	34633.2	32464.0	24657.3
70°	2490.7	2649.9	2935.6	5868.0	10346.1	19049.1	29333.5	32490.0	32678.3	30337.0	21591.8
72.5°	1026.2	1133.3	1393.1	2659.6	5358.2	12090.0	23358.4	27894.9	28333.3	25508.1	16571.3
75°	581.3	636.5	818.3	1334.7	2325.1	5634.2	14148.8	19802.5	20448.7	17581.3	9969.4
77.5°	386.4	412.4	529.3	863.8	1308.7	1922.4	6046.6	10316.9	11550.9	9602.5	4315.8
80°	259.8	282.5	363.7	578.0	850.8	824.8	1925.7	3822.2	4702.2	3299.3	1052.1
82.5°	175.4	178.6	259.8	379.9	539.1	399.4	568.3	1188.5	1493.8	954.7	399.4
85°	100.7	97.4	191.6	220.8	240.3	165.6	172.1	357.2	467.6	402.7	227.3
87.5°	13.0	19.5	74.7	58.5	32.5	35.7	35.7	61.7	90.9	97.4	48.7
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°	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2	5634.2
2.5°	5640.7	5637.4	5627.7	5618.0	5595.2	5582.2	5588.7	5582.2	5579.0	5582.2	5595.2
5°	5682.9	5673.2	5647.2	5614.7	5569.2	5514.0	5478.3	5426.4	5377.6	5348.4	5354.9
7.5°	5796.6	5786.8	5751.1	5660.2	5514.0	5283.5	5072.4	4887.3	4747.7	4666.5	4669.7
10°	5978.4	5962.2	5907.0	5705.6	5322.4	4819.1	4400.2	4052.7	3825.4	3718.2	3708.5
12.5°	6192.7	6173.3	6075.8	5663.4	4958.7	4172.9	3594.8	3208.4	2997.3	2903.2	2893.4
15°	6446.0	6420.1	6228.5	5462.1	4429.4	3458.5	2929.1	2640.1	2503.7	2419.3	2422.5
17.5°	6761.0	6715.6	6342.1	5160.1	3854.6	2912.9	2520.0	2302.4	2182.2	2101.1	2094.6
20°	7170.2	7095.5	6433.0	4799.6	3325.3	2568.7	2243.9	2062.1	1971.2	1899.7	1886.7
22.5°	7741.7	7634.6	6543.5	4409.9	2951.9	2331.6	2039.3	1906.2	1831.5	1750.3	1737.3
25°	8449.7	8323.0	6679.8	4049.5	2695.3	2127.0	1890.0	1779.6	1691.9	1597.7	1588.0
27.5°	9440.1	9212.8	6842.2	3754.0	2474.5	1951.7	1753.6	1630.2	1529.5	1451.6	1435.3
30°	10544.2	10170.8	6985.1	3575.4	2273.2	1789.3	1575.0	1451.6	1357.4	1302.2	1292.5
32.5°	11589.9	11083.3	7079.3	3497.4	2091.3	1604.2	1380.1	1247.0	1175.5	1159.3	1169.1
35°	12577.1	11908.1	7069.5	3422.7	1928.9	1419.1	1188.5	1052.1	996.9	1006.7	1006.7
37.5°	13713.7	12788.2	7001.3	3305.8	1795.8	1250.2	1022.9	902.8	854.1	857.3	870.3
40°	15035.3	13804.6	6959.1	3085.0	1649.7	1094.4	886.5	789.1	753.4	740.4	737.2
42.5°	16444.7	14788.5	6965.6	2835.0	1467.8	954.7	792.4	711.2	678.7	669.0	665.7
45°	17860.5	15727.0	6975.4	2575.2	1276.2	847.6	724.2	656.0	636.5	623.5	623.5
47.5°	19192.0	16525.9	6793.5	2295.9	1087.9	766.4	669.0	623.5	607.3	591.0	591.0
50°	20432.5	17058.4	6355.1	1971.2	938.5	701.4	626.7	594.3	578.0	561.8	561.8
52.5°	21396.9	17142.9	5630.9	1636.7	834.6	652.7	600.8	571.5	552.1	535.8	532.6
55°	21825.6	16613.6	4601.5	1324.9	753.4	610.5	574.8	545.6	522.8	506.6	503.3
57.5°	21715.2	15499.7	3588.3	1065.1	675.5	568.3	542.3	522.8	496.8	470.9	467.6
60°	21172.9	14009.2	2705.1	886.5	604.0	522.8	506.6	490.4	454.6	415.7	409.2
62.5°	20234.4	12135.4	1928.9	733.9	526.1	470.9	464.4	451.4	399.4	328.0	321.5
65°	18799.0	9859.0	1298.9	610.5	451.4	412.4	415.7	392.9	324.7	243.6	237.1
67.5°	16701.2	7209.2	831.3	500.1	376.7	344.2	347.5	334.5	276.0	207.8	198.1
70°	14028.6	4773.6	542.3	379.9	302.0	266.3	285.8	289.0	233.8	168.9	162.4
72.5°	10284.4	2818.7	379.9	282.5	220.8	185.1	233.8	240.3	188.3	126.6	120.2
75°	5861.5	1337.9	285.8	204.6	136.4	129.9	181.9	181.9	129.9	84.4	77.9
77.5°	2461.5	558.5	201.3	133.1	77.9	74.7	123.4	113.7	64.9	39.0	39.0
80°	711.2	250.0	107.2	64.9	32.5	29.2	48.7	35.7	16.2	6.5	6.5
82.5°	279.3	110.4	42.2	26.0	13.0	13.0	6.5	0.0	0.0	0.0	0.0
85°	165.6	45.5	19.5	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.2	9.7	6.5	0.0	0.0	0.0	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)