

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: P971576

Luminaire Tested: **NAV-SB6D-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43435.4 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 440.1
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



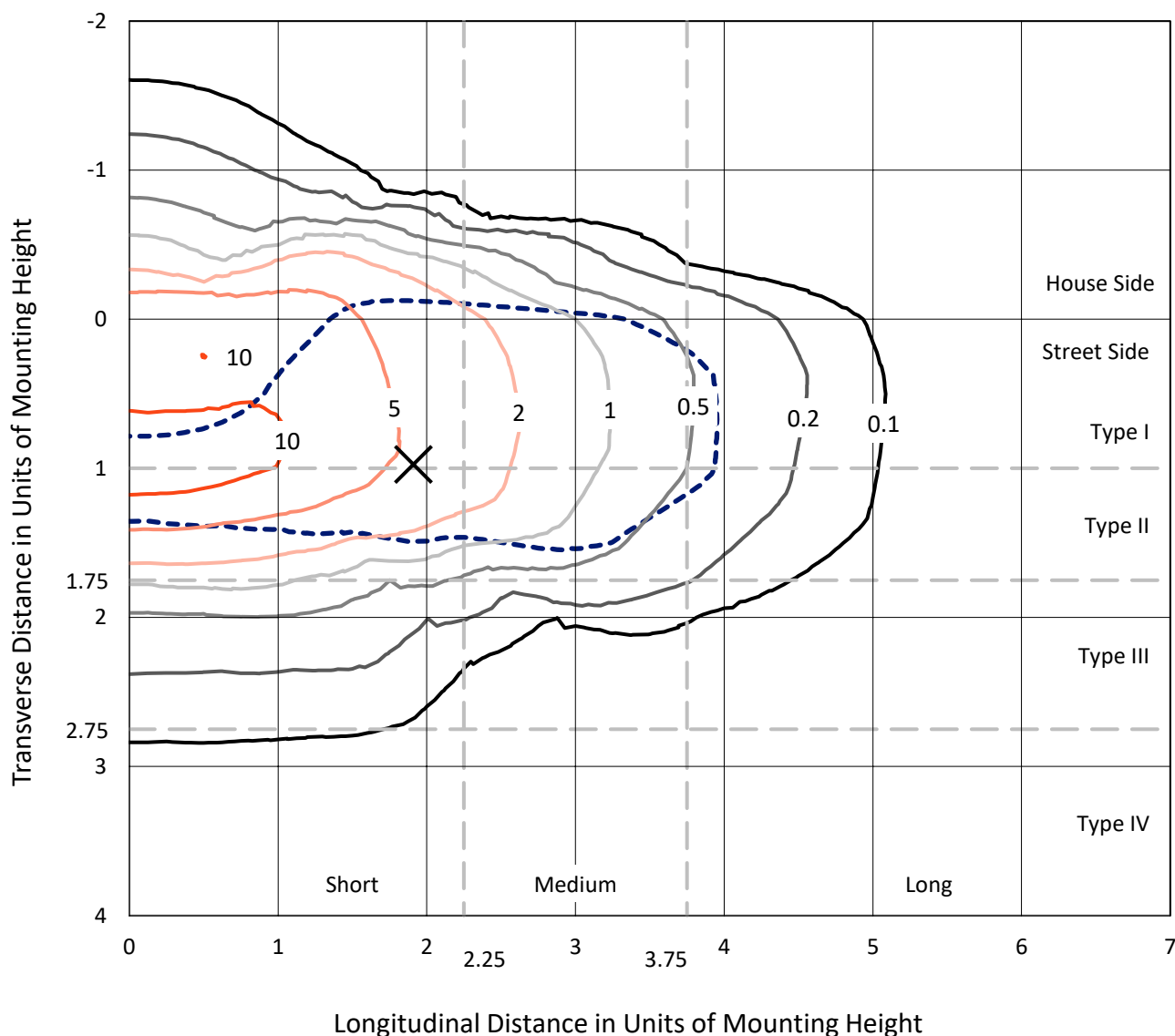
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

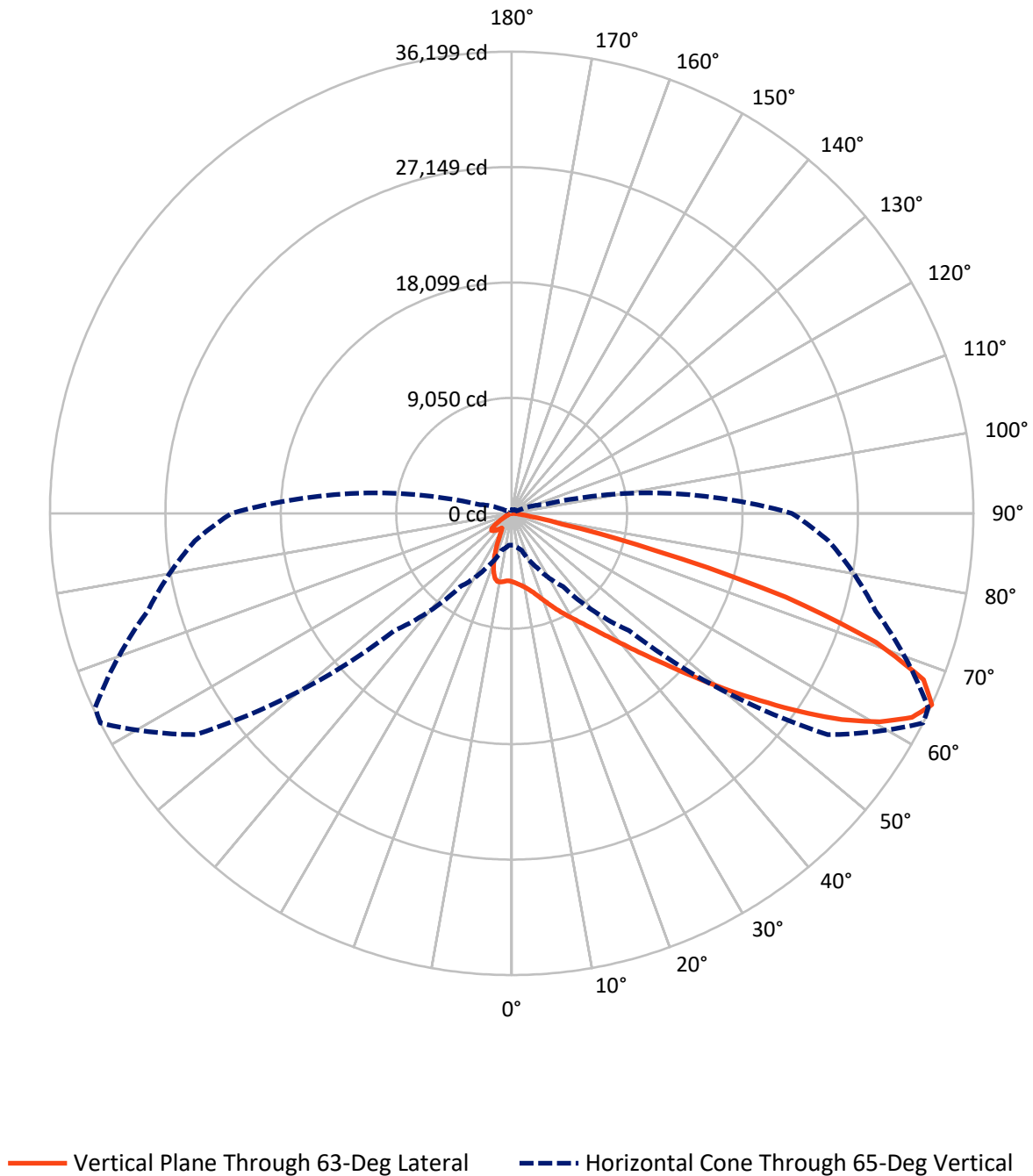


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc

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	6384.6	0.0	6384.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	37050.7	0.0	37050.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	43435.4	0.0	43435.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.1	1.2
10°-20°	1401.4	3.2
20°-30°	2440.2	5.6
30°-40°	4398.3	10.1
40°-50°	8723.2	20.1
50°-60°	11882.4	27.4
60°-70°	9484.4	21.8
70°-80°	4291.9	9.9
80°-90°	308.5	0.7
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°	43435.4	100.0
0°-180°	43435.4	100.0

Coefficient of Utilization



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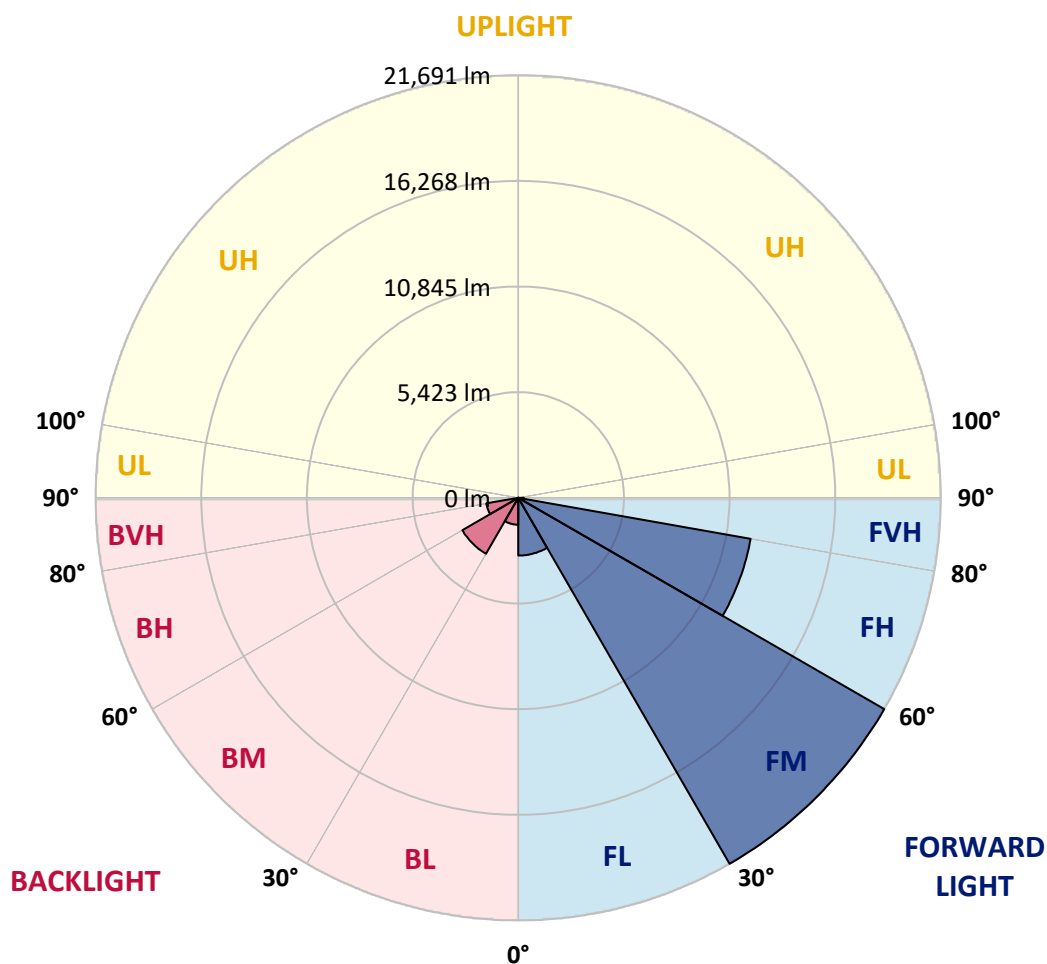
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2965.0	6.8			
FM	(30°-60°)	21690.5	49.9			
FH	(60°-80°)	12109.6	27.9			G5
FVH	(80°-90°)	285.6	0.7			G3/500
BL	(0°-30°)	1381.7	3.2	B3/2500		
BM	(30°-60°)	3313.2	7.6	B3/5000		
BH	(60°-80°)	1666.8	3.8	B3/2500		G3/2500
BVH	(80°-90°)	22.9	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7
2.5°	5486.2	5471.3	5492.3	5483.2	5477.3	5465.3	5459.4	5453.4	5441.4	5432.5	5396.6
5°	5501.2	5492.3	5513.2	5531.1	5549.0	5567.0	5575.9	5587.9	5575.9	5552.0	5516.1
7.5°	5375.7	5369.7	5414.6	5468.3	5549.0	5617.7	5692.4	5734.3	5737.2	5728.3	5689.5
10°	5366.7	5351.8	5396.6	5462.3	5567.0	5689.5	5821.0	5910.6	5922.6	5961.4	5919.6
12.5°	5507.1	5492.3	5555.0	5626.7	5734.3	5862.8	6024.1	6149.6	6167.5	6221.3	6191.4
15°	5743.3	5722.3	5794.0	5886.7	6024.1	6170.5	6340.9	6454.4	6469.4	6535.1	6481.3
17.5°	6018.2	5997.3	6080.9	6179.5	6328.9	6529.1	6726.4	6851.8	6869.8	6911.6	6813.0
20°	6370.8	6343.8	6409.6	6499.2	6657.6	6896.6	7132.8	7312.0	7309.1	7309.1	7147.6
22.5°	6780.2	6738.2	6795.0	6866.8	7016.2	7306.0	7619.7	7831.9	7831.9	7748.3	7482.3
25°	7219.4	7177.6	7240.3	7306.0	7437.5	7766.2	8133.8	8396.7	8408.7	8265.2	7840.9
27.5°	7769.2	7715.4	7763.2	7840.9	7918.6	8253.3	8689.5	8994.4	9000.3	8779.2	8181.6
30°	8827.0	8674.6	8525.2	8441.5	8477.4	8809.1	9275.2	9612.9	9642.8	9338.0	8552.1
32.5°	10763.3	10733.5	10207.6	9520.3	9161.7	9406.7	9929.7	10336.0	10353.9	9962.5	9033.2
35°	13772.4	13736.5	12890.9	11582.1	10413.7	10207.6	10724.5	11205.6	11193.6	10751.4	9657.8
37.5°	17364.1	17331.3	16216.7	14465.6	12574.2	11417.8	11749.5	12254.4	12329.1	11749.5	10464.5
40°	20433.0	20310.5	19605.3	17917.0	15442.8	13425.8	13207.6	13542.3	13620.0	12932.7	11489.4
42.5°	22757.8	22653.2	22294.6	21239.8	18915.0	16396.0	14925.8	15054.3	15141.0	14316.3	12666.7
45°	23962.0	23938.1	24081.6	23982.9	22453.0	20041.5	17382.1	16847.2	16880.1	15849.2	14002.5
47.5°	24132.3	24120.4	24774.8	25701.2	25494.9	24153.2	20534.6	19082.3	18965.8	17579.3	15454.7
50°	23128.3	23104.4	24359.4	26095.6	27526.9	27607.6	24114.5	21601.4	21344.4	19369.2	16969.7
52.5°	19922.0	19916.1	21977.8	24867.4	28241.0	30631.6	27652.3	24368.4	23938.1	21263.7	18571.4
55°	15329.2	15439.8	17803.4	21218.9	26938.2	32086.8	30828.8	27440.2	26779.9	23170.1	20047.6
57.5°	10859.0	11020.3	13357.1	16399.0	22898.2	31226.2	32977.2	30518.0	29806.8	25070.6	21544.6
60°	5832.9	5976.3	8316.0	11946.7	17035.5	28016.9	34109.7	33189.4	32517.1	26875.5	22895.2
62.5°	3475.3	3523.0	4491.2	7712.4	11522.3	21404.2	33628.7	35224.3	34671.5	28390.4	24069.6
65°	2495.2	2504.1	2991.2	4709.4	6995.3	13004.5	30255.0	36198.5	36028.1	29531.9	24939.2
67.5°	2100.6	2094.7	2297.8	3128.6	4766.1	6514.2	23188.1	34821.0	35544.1	30255.0	25432.2
70°	1801.8	1810.9	2049.9	2291.9	3582.8	3687.3	11528.3	30317.9	31859.7	30446.3	25402.3
72.5°	1341.7	1371.6	1592.6	2088.7	2704.3	2537.0	3980.2	22479.9	25267.8	28686.3	24084.5
75°	947.2	962.2	1120.5	1757.1	2017.0	1846.6	2032.0	11620.9	15194.8	21992.8	19712.9
77.5°	729.1	756.0	848.6	1228.2	1987.2	1296.8	1243.1	4022.1	6179.5	13285.3	13515.4
80°	394.4	442.3	612.5	887.4	1395.4	917.4	615.5	1601.7	2094.7	6212.4	5211.3
82.5°	203.2	227.1	427.3	639.5	794.9	800.8	304.8	666.4	863.6	1918.4	714.2
85°	80.7	98.6	286.9	352.6	409.4	394.4	137.5	269.0	310.8	531.9	218.1
87.5°	17.9	29.9	104.6	80.7	77.7	83.6	32.9	62.7	59.8	62.7	38.8
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°	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7	5360.7
2.5°	5393.7	5381.7	5348.8	5313.0	5271.1	5247.2	5232.2	5229.2	5208.3	5193.4	5208.3
5°	5483.2	5471.3	5408.5	5333.9	5253.1	5190.4	5130.6	5076.8	4999.2	4984.3	4978.2
7.5°	5662.5	5629.7	5528.1	5426.5	5274.1	5091.8	4870.7	4616.7	4389.6	4320.9	4288.0
10°	5883.7	5838.8	5710.4	5531.1	5193.4	4697.4	4162.5	3666.4	3272.0	3161.5	3119.6
12.5°	6134.7	6095.9	5925.5	5593.8	4855.7	3956.3	3137.5	2522.0	2139.5	2043.8	2017.0
15°	6433.5	6376.7	6140.7	5498.2	4252.1	3006.1	2154.4	1789.9	1652.4	1634.6	1616.6
17.5°	6750.2	6657.6	6331.9	5154.5	3439.4	2136.5	1664.4	1559.8	1500.1	1482.1	1473.1
20°	7040.1	6920.6	6445.4	4634.6	2569.8	1664.4	1491.1	1422.4	1368.6	1347.7	1335.7
22.5°	7330.0	7159.6	6445.4	3926.5	1927.4	1476.1	1368.6	1305.8	1243.1	1216.2	1201.2
25°	7631.7	7404.6	6331.9	3137.5	1550.8	1353.6	1252.0	1183.3	1129.6	1096.6	1084.7
27.5°	7924.6	7610.8	6071.9	2390.5	1380.6	1246.1	1144.4	1078.7	1028.0	1004.0	1004.0
30°	8202.5	7814.0	5707.4	1813.8	1270.0	1141.4	1045.8	989.1	938.3	914.4	917.4
32.5°	8578.9	8071.1	5318.9	1488.1	1174.3	1042.8	956.2	902.4	857.6	839.7	839.7
35°	9101.9	8450.5	4984.3	1461.2	1093.7	962.2	875.6	824.7	779.9	765.0	765.0
37.5°	9843.0	9063.0	4808.0	1640.5	1028.0	890.5	809.7	756.0	714.2	702.2	699.3
40°	10757.4	9893.8	4903.6	1819.8	983.1	827.7	750.0	696.3	660.4	645.4	642.5
42.5°	11842.0	10918.7	5432.5	1957.2	953.2	774.0	693.2	633.4	609.6	603.6	603.6
45°	13088.1	12045.3	6242.2	2103.7	905.4	723.1	636.5	591.6	573.7	570.7	567.7
47.5°	14504.5	13282.4	7180.5	2286.0	857.6	675.4	591.6	561.8	546.8	540.9	540.9
50°	15908.9	14528.5	8145.7	2387.5	818.8	630.5	555.8	531.9	520.0	516.9	516.9
52.5°	17379.1	15810.3	8925.6	2291.9	785.9	594.6	525.9	508.0	496.0	493.0	493.0
55°	18780.6	16847.2	9060.1	1945.2	720.2	558.8	493.0	484.1	469.1	469.1	466.2
57.5°	19987.8	17367.2	8109.8	1428.3	654.4	505.0	460.2	451.2	439.2	436.2	433.3
60°	21096.3	17217.7	6260.2	962.2	582.7	451.2	418.3	412.4	400.4	385.5	382.5
62.5°	21720.9	16560.3	4282.0	627.5	511.0	394.4	370.5	367.6	340.6	310.8	304.8
65°	21956.9	15209.7	2671.5	457.2	427.3	337.6	319.7	313.8	274.9	242.0	239.0
67.5°	21750.8	12986.5	1347.7	361.5	337.6	280.8	262.9	262.9	236.1	206.2	203.2
70°	20926.1	9735.4	567.7	289.9	259.9	215.1	215.1	227.1	200.2	167.4	164.3
72.5°	19136.1	6550.1	301.8	221.1	194.2	152.4	176.3	185.2	158.4	125.5	125.5
75°	15212.7	3995.1	209.2	164.3	122.5	107.5	134.5	140.4	107.5	83.6	80.7
77.5°	10404.8	2294.9	140.4	104.6	77.7	62.7	92.7	86.6	56.8	38.8	41.8
80°	4568.9	956.2	80.7	47.8	29.9	23.9	32.9	23.9	17.9	12.0	12.0
82.5°	534.8	224.1	29.9	17.9	12.0	5.9	3.0	0.0	0.0	0.0	0.0
85°	110.6	26.9	15.0	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.9	5.9	3.0	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)