

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: P971611

Luminaire Tested: **NAV-SB6D-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48843.3 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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



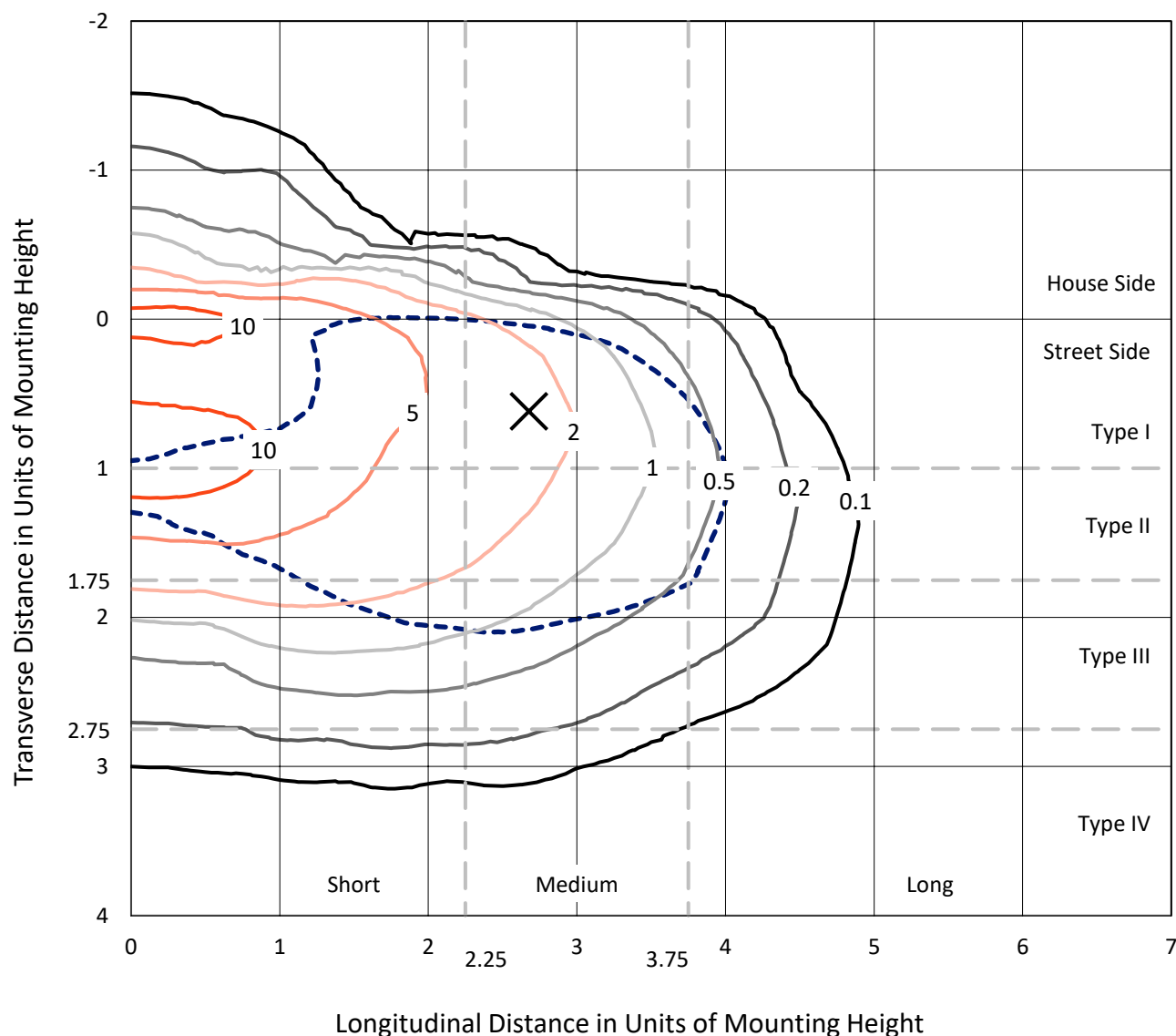
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

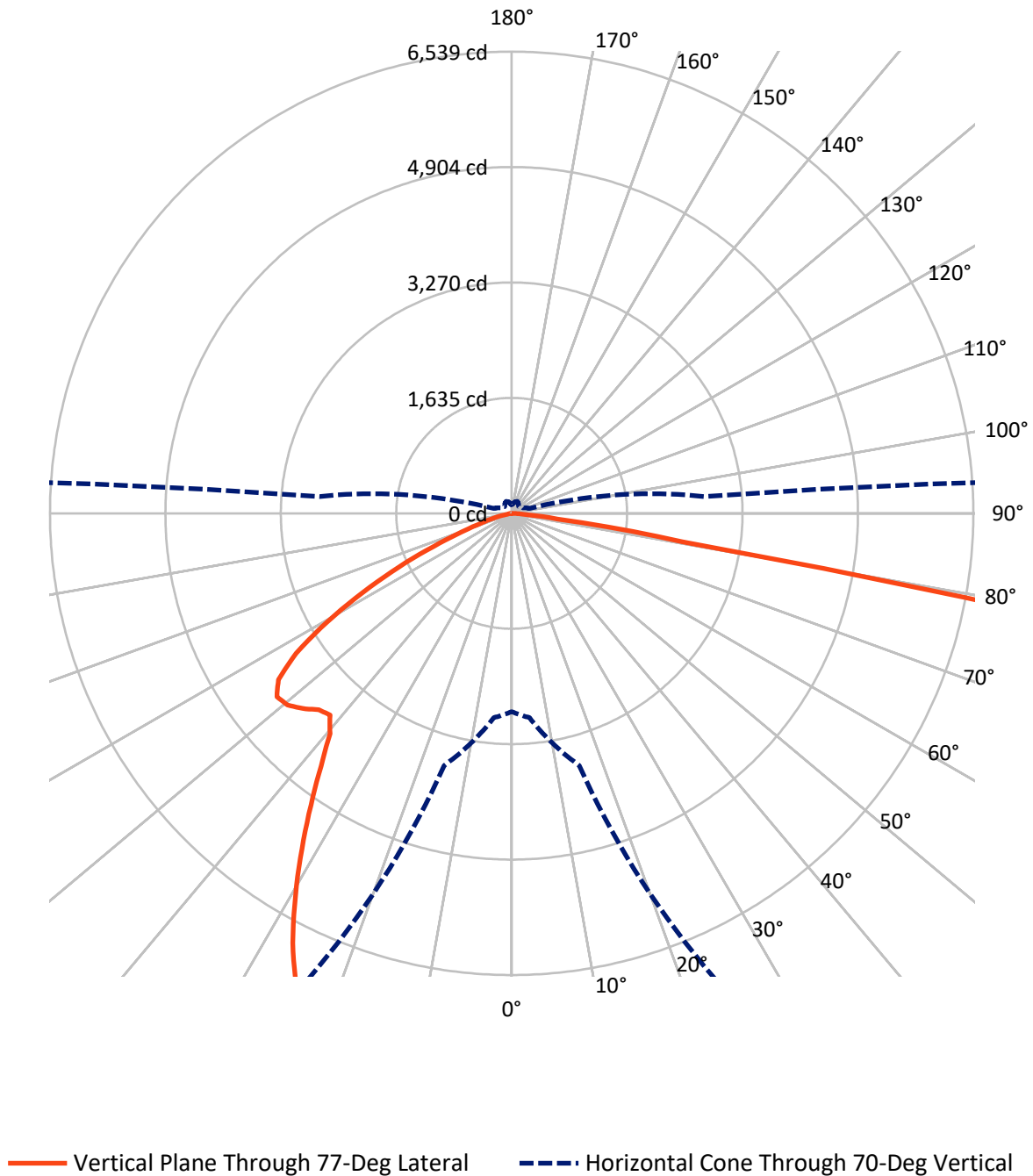
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5148.8	0.0	5148.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	43694.5	0.0	43694.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	48843.3	0.0	48843.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.6	1.3
10°-20°	1558.7	3.2
20°-30°	2410.9	4.9
30°-40°	4374.7	9.0
40°-50°	8257.8	16.9
50°-60°	11931.8	24.4
60°-70°	12701.1	26.0
70°-80°	6730.7	13.8
80°-90°	221.0	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°	48843.3	100.0
0°-180°	48843.3	100.0

Coefficient of Utilization



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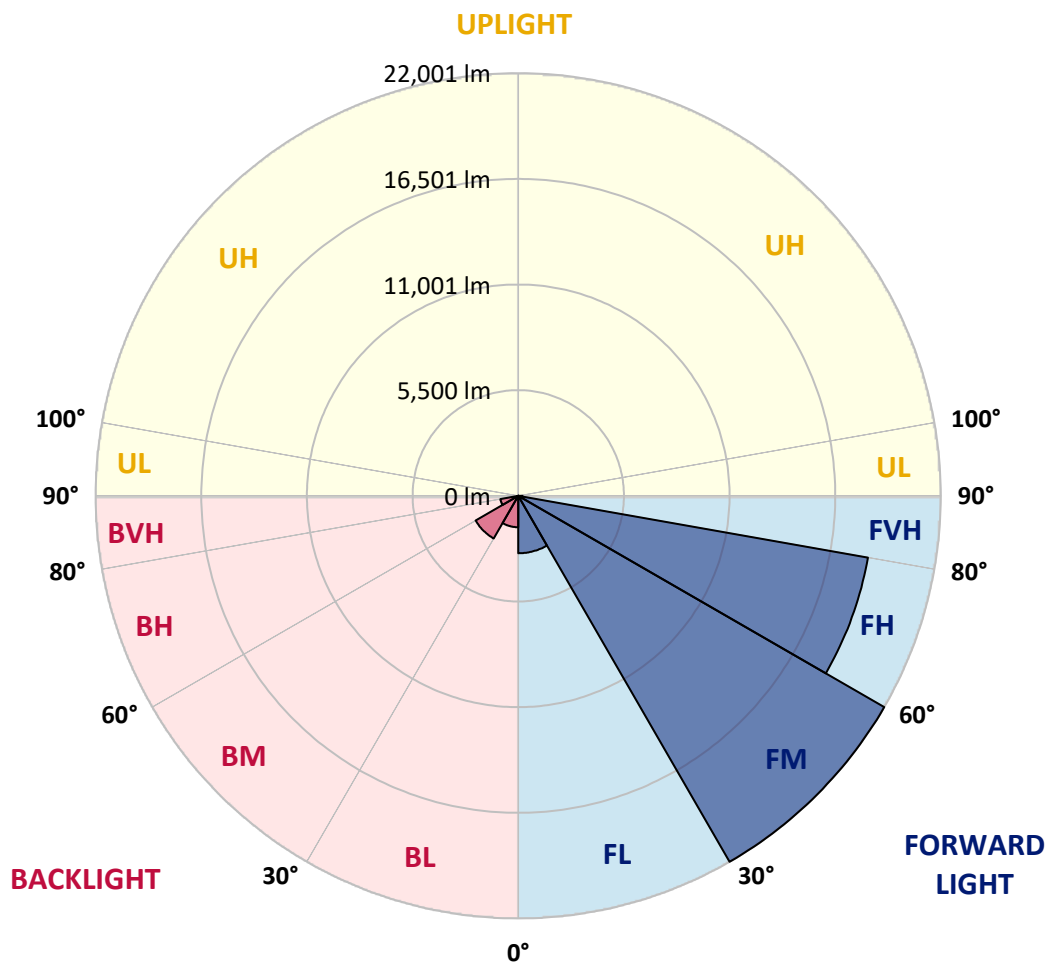
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2990.4	6.1			
FM	(30°-60°)	22001.2	45.0			
FH	(60°-80°)	18487.9	37.9			G5
FVH	(80°-90°)	215.1	0.4			G2/225
BL	(0°-30°)	1635.9	3.3	B3/2500		
BM	(30°-60°)	2563.1	5.2	B3/5000		
BH	(60°-80°)	943.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.9	0.0			G0/10
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7
2.5°	7153.0	7217.6	7208.4	7251.7	7267.0	7328.7	7390.5	7473.7	7566.2	7563.2	7624.9
5°	6748.8	6813.6	6829.1	6887.7	6961.7	7057.3	7183.7	7350.3	7523.1	7550.8	7674.2
7.5°	6270.7	6338.6	6378.7	6495.9	6631.6	6829.1	7035.7	7279.3	7566.2	7606.3	7843.8
10°	5792.7	5854.4	5906.8	6073.3	6289.3	6582.2	6918.5	7270.1	7655.7	7714.3	8050.5
12.5°	5496.6	5555.2	5613.7	5758.8	6027.1	6384.9	6841.4	7313.3	7803.7	7887.1	8331.2
15°	5391.7	5444.1	5490.4	5620.0	5869.8	6276.9	6826.0	7402.8	7991.9	8102.9	8670.5
17.5°	5407.1	5434.9	5465.7	5564.4	5808.1	6227.6	6853.8	7557.0	8213.9	8312.6	9009.8
20°	5496.6	5511.9	5515.0	5582.9	5798.8	6221.4	6909.2	7705.0	8423.8	8556.4	9345.9
22.5°	5610.6	5616.8	5610.6	5657.0	5857.5	6267.7	6983.2	7883.9	8658.2	8781.5	9685.2
25°	6144.3	6027.1	5879.0	5789.6	5956.2	6357.2	7094.3	8124.6	8914.1	9034.5	10015.3
27.5°	7800.7	7464.5	6933.9	6338.6	6159.7	6486.7	7248.5	8368.2	9173.2	9281.2	10370.0
30°	10490.4	10049.2	9148.5	7806.8	6813.6	6758.1	7449.0	8611.8	9447.7	9565.0	10749.4
32.5°	13186.2	13078.2	12038.7	10181.8	8284.9	7362.7	7782.1	8941.9	9811.7	9904.3	11261.5
35°	15912.8	15693.9	14842.5	13007.2	10552.0	8593.4	8337.3	9373.7	10289.9	10394.7	12007.9
37.5°	18001.0	17868.4	17340.9	15829.6	13241.7	10493.4	9287.4	10043.1	10983.8	11101.1	12964.1
40°	19845.5	19783.8	19605.0	18608.7	16249.0	12979.5	10764.9	11079.4	11946.2	12085.0	14136.2
42.5°	21295.3	21440.2	21542.0	21264.4	19348.9	15817.2	12751.2	12535.3	13288.0	13429.9	15629.1
45°	22778.9	22828.3	23238.5	23639.5	22427.3	18784.5	14990.6	14241.0	14956.7	15132.5	17418.0
47.5°	23732.0	23929.4	24651.1	25357.6	25015.1	21727.1	17396.5	16255.3	16890.7	17220.7	19423.0
50°	23803.0	24176.2	25169.4	26400.1	26899.8	24527.8	20012.1	18550.0	19225.6	19589.6	21563.6
52.5°	22621.6	23201.5	24740.6	26542.0	27917.6	26899.8	22717.2	20844.9	21711.7	22186.6	23784.4
55°	17344.0	18102.8	23127.5	25770.9	27957.8	28698.1	25351.3	23235.4	24481.5	25018.2	26184.1
57.5°	15110.9	15493.4	18183.0	24432.2	27214.4	29422.9	27732.6	25511.7	27495.1	28161.4	28451.2
60°	12572.3	13075.1	15249.6	22242.2	26205.8	29493.9	29836.2	28448.2	30761.6	31511.1	30530.2
62.5°	8544.0	9090.0	11252.1	18479.1	24827.0	29459.9	31560.5	31471.0	34392.0	35197.1	32291.5
65°	5293.0	5635.3	7060.4	15089.3	22899.2	29496.9	33364.9	35141.5	38222.9	39040.3	33654.7
67.5°	4182.5	4339.8	5083.2	11585.3	19577.2	28664.1	35166.2	38593.1	41828.7	42476.4	34071.2
70°	2809.9	2905.6	3698.3	7766.7	14564.9	24820.8	35132.3	40326.6	43685.5	44009.4	32553.6
72.5°	1480.5	1554.6	2162.2	3596.5	8797.0	17643.2	29614.1	38253.7	41837.9	41350.5	27825.2
75°	740.3	863.7	1455.9	1826.0	3756.9	9839.5	18389.7	30160.1	32930.0	31042.2	17852.9
77.5°	561.4	678.6	1202.9	1202.9	1307.8	3312.7	7788.4	16449.5	15172.6	12634.0	5240.5
80°	357.8	462.7	1051.9	909.9	545.9	842.0	2029.6	4608.2	3223.3	2452.2	953.1
82.5°	209.7	302.3	876.0	601.5	305.3	311.5	573.7	980.8	835.9	650.9	293.0
85°	83.2	197.4	601.5	237.5	120.3	77.1	172.7	209.7	172.7	129.6	74.0
87.5°	0.0	46.2	104.9	0.0	9.2	6.1	12.3	15.4	15.4	12.3	24.7
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°	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7	7618.7
2.5°	7652.6	7658.8	7677.2	7680.3	7637.2	7581.6	7560.1	7550.8	7513.8	7510.7	7516.8
5°	7745.1	7772.9	7745.1	7664.9	7473.7	7205.3	7001.8	6835.2	6684.0	6637.8	6610.0
7.5°	7930.2	7958.0	7874.7	7560.1	7078.9	6545.2	6064.1	5724.8	5419.5	5305.3	5259.1
10°	8195.5	8232.5	7970.3	7334.9	6483.5	5626.1	4811.8	4238.1	3790.9	3608.8	3531.7
12.5°	8528.6	8544.0	8022.8	6992.6	5709.4	4484.9	3331.2	2717.5	2319.6	2171.5	2125.2
15°	8895.7	8874.0	8028.9	6526.8	4654.5	3170.8	2174.5	1786.0	1625.5	1576.1	1576.1
17.5°	9281.2	9191.8	7905.5	5854.4	3497.8	2168.4	1613.1	1520.7	1492.9	1480.5	1477.4
20°	9660.6	9460.1	7680.3	4975.2	2510.7	1619.4	1465.1	1437.4	1422.0	1415.7	1409.6
22.5°	10006.0	9663.7	7294.8	3954.3	1823.0	1431.2	1385.0	1360.3	1332.5	1320.2	1317.1
25°	10342.2	9780.9	6752.0	3001.2	1459.0	1338.6	1301.6	1255.4	1218.4	1202.9	1196.8
27.5°	10669.2	9855.0	6073.3	2220.9	1301.6	1252.3	1184.5	1119.7	1091.9	1085.8	1079.5
30°	11017.7	9879.6	5302.2	1656.4	1206.0	1144.3	1045.6	971.6	956.2	959.3	959.3
32.5°	11443.4	9916.6	4525.0	1357.2	1125.9	1014.7	897.6	820.5	808.1	820.5	817.4
35°	11952.3	9990.7	3775.4	1249.2	1054.9	882.1	755.7	691.0	678.6	687.9	684.8
37.5°	12643.3	10110.9	3075.2	1227.6	996.3	771.1	635.4	582.9	582.9	586.1	582.9
40°	13562.5	10431.7	2449.0	1212.2	965.4	687.9	536.7	515.1	524.4	530.5	530.5
42.5°	14682.1	11113.4	2026.5	1193.7	931.5	650.9	487.4	478.1	493.5	499.7	499.7
45°	15937.5	11977.0	1878.4	1162.9	900.7	675.5	465.8	453.5	471.9	475.0	478.1
47.5°	17236.1	12822.2	1860.0	1128.9	869.8	712.5	459.6	431.8	453.5	456.5	459.6
50°	18550.0	13374.3	1878.4	1076.5	820.5	712.5	462.7	410.2	428.8	438.0	441.1
52.5°	19873.3	13627.3	1866.1	962.4	734.1	669.3	462.7	391.8	410.2	416.4	416.4
55°	21156.5	13577.9	1677.9	792.7	623.1	592.2	450.4	376.3	388.7	391.8	391.8
57.5°	22171.3	12890.1	1329.4	616.9	505.8	493.5	410.2	357.8	367.1	364.0	364.0
60°	22701.8	11378.6	950.0	475.0	397.9	388.7	360.9	333.1	339.3	323.9	320.8
62.5°	22708.0	9379.9	635.4	376.3	317.8	308.4	308.4	299.2	293.0	262.2	253.0
65°	22223.7	7162.2	422.6	299.2	256.0	240.6	259.1	256.0	234.4	191.3	185.1
67.5°	21125.7	4694.6	320.8	234.4	197.4	188.2	206.6	215.9	200.5	160.4	157.3
70°	18867.8	2732.9	265.3	181.9	148.0	138.8	166.6	185.1	166.6	129.6	123.4
72.5°	15672.2	1474.4	215.9	135.7	101.8	92.6	132.6	151.2	132.6	95.6	92.6
75°	10169.5	789.7	166.6	89.5	52.5	58.6	98.7	111.0	92.6	61.7	55.6
77.5°	3414.5	348.5	104.9	43.2	24.7	24.7	58.6	67.9	43.2	21.6	18.6
80°	761.9	144.9	43.2	18.6	9.2	9.2	12.3	12.3	6.1	0.0	0.0
82.5°	249.8	58.6	18.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	95.6	21.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.0	3.1	0.0	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)