

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: P971056

Luminaire Tested: **NAV-SB6C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31669.4 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

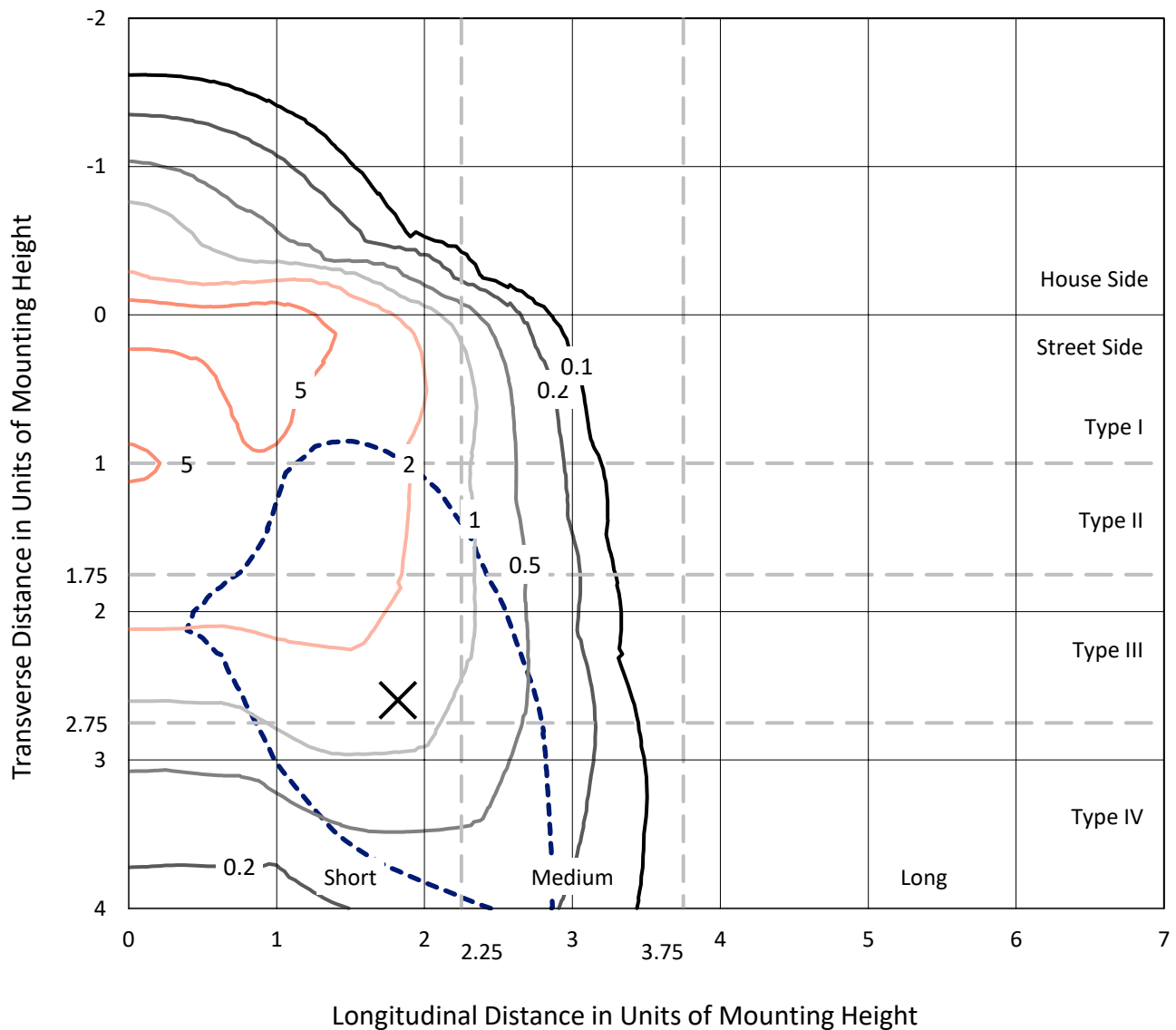
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

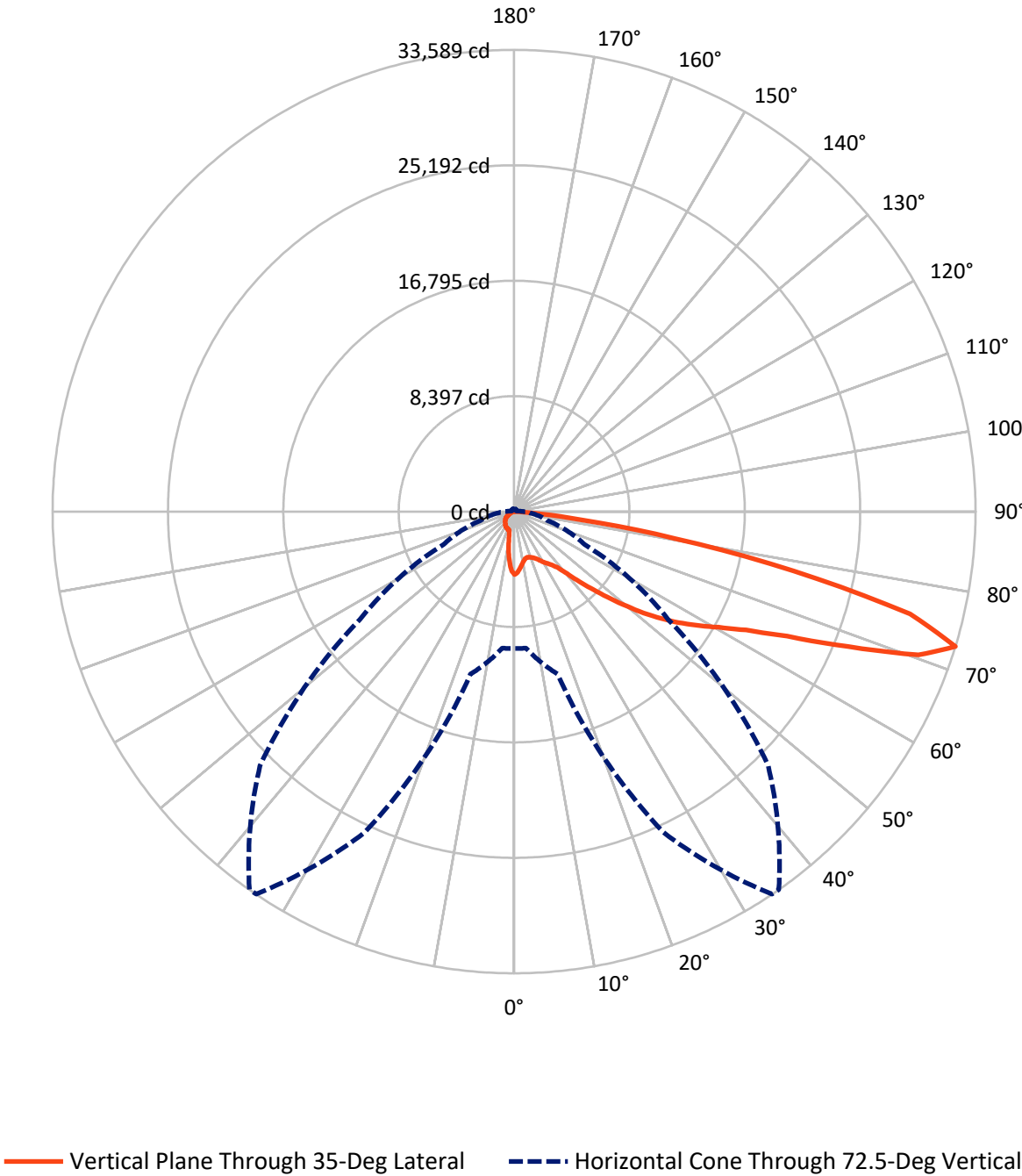
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3564.2	0.0	3564.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	28105.2	0.0	28105.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	31669.4	0.0	31669.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.2	1.2
10°-20°	882.4	2.8
20°-30°	1433.4	4.5
30°-40°	2391.5	7.6
40°-50°	4524.8	14.3
50°-60°	7190.0	22.7
60°-70°	8894.5	28.1
70°-80°	5528.9	17.5
80°-90°	446.8	1.4
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°	31669.4	100.0
0°-180°	31669.4	100.0

Coefficient of Utilization



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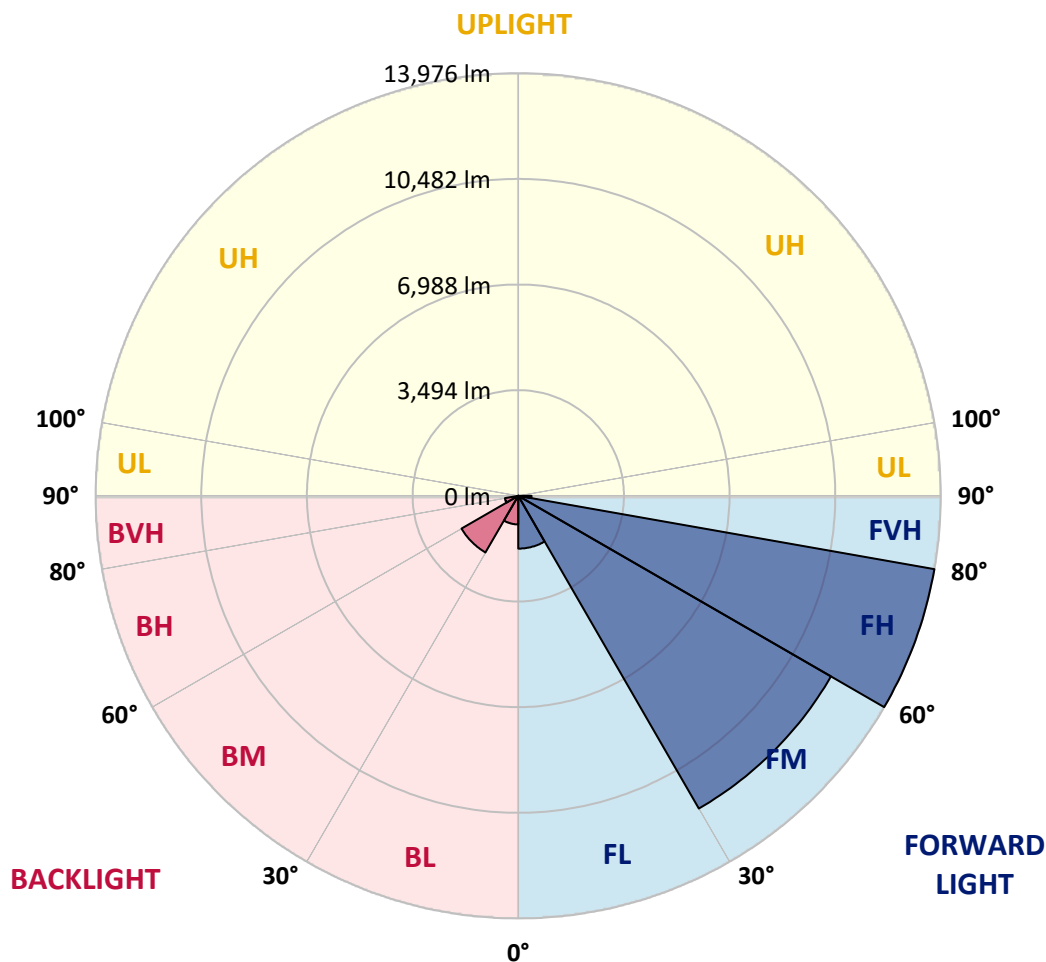
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1745.8	5.5			
FM	(30°-60°)	11942.5	37.7			
FH	(60°-80°)	13976.1	44.1			G5
FVH	(80°-90°)	440.7	1.4			G3/500
BL	(0°-30°)	947.1	3.0	B2/1000		
BM	(30°-60°)	2163.8	6.8	B2/2500		
BH	(60°-80°)	447.3	1.4	B1/500		G1/500
BVH	(80°-90°)	6.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0
2.5°	4385.8	4422.9	4429.8	4441.4	4441.4	4455.4	4478.5	4511.0	4564.4	4592.3	4610.9
5°	4042.3	4070.2	4105.0	4132.8	4186.2	4193.2	4283.7	4371.8	4494.8	4587.6	4652.6
7.5°	3696.6	3729.1	3775.5	3842.7	3912.3	3933.2	4070.2	4218.7	4413.6	4587.6	4696.8
10°	3452.9	3455.3	3497.0	3564.3	3675.6	3701.2	3868.2	4079.5	4323.1	4559.8	4738.5
12.5°	3316.0	3332.3	3350.8	3401.9	3508.6	3524.9	3703.5	3951.8	4232.6	4543.5	4787.2
15°	3316.0	3327.6	3339.2	3364.8	3450.6	3464.5	3622.4	3870.6	4186.2	4550.5	4866.1
17.5°	3350.8	3369.4	3360.1	3390.3	3480.8	3490.0	3629.3	3847.4	4183.8	4594.6	4986.7
20°	3434.4	3448.3	3429.8	3448.3	3538.8	3557.4	3701.2	3891.5	4223.3	4671.1	5137.6
22.5°	3566.6	3573.6	3529.5	3543.4	3636.2	3659.5	3826.5	4016.8	4318.4	4794.1	5339.5
25°	3733.7	3747.6	3680.4	3696.6	3784.7	3812.6	4005.2	4204.8	4469.3	4963.6	5597.0
27.5°	3926.3	3933.2	3875.2	3873.0	3986.6	4026.1	4221.0	4436.8	4671.1	5177.1	5921.9
30°	4146.7	4167.6	4111.9	4102.7	4246.6	4279.0	4471.7	4722.3	4968.2	5497.3	6383.7
32.5°	4320.8	4337.0	4304.6	4327.8	4473.9	4499.4	4775.6	5126.0	5434.7	5952.1	7012.5
35°	4571.4	4580.7	4506.4	4548.2	4715.3	4780.3	5191.0	5692.2	6021.7	6522.9	7834.1
37.5°	5478.7	5478.7	5163.1	4956.6	5116.7	5174.7	5759.5	6404.6	6745.7	7288.7	8869.0
40°	6734.1	6713.2	6251.5	5829.1	5808.3	5921.9	6569.3	7302.6	7680.8	8207.6	10033.8
42.5°	8073.0	8040.5	7411.7	6994.0	6924.4	6963.8	7504.5	8409.5	8794.7	9328.4	11287.0
45°	9261.2	9251.9	8676.4	8114.8	7989.5	8114.8	8671.7	9704.4	9980.5	10542.0	12537.7
47.5°	10256.7	10256.7	9836.6	9470.0	9405.0	9479.3	10251.9	11140.7	11115.2	11834.5	13756.0
50°	11402.9	11393.7	10994.6	10836.8	10904.1	11008.5	12071.3	12653.7	12289.4	13103.9	14844.3
52.5°	12205.9	12261.6	12124.6	12099.1	12442.6	12623.6	13918.4	14134.2	13340.6	14308.3	15658.8
55°	12841.7	12906.7	13064.4	13243.1	13904.4	14141.2	15707.5	15538.1	14220.0	15352.4	16127.6
57.5°	13742.1	13649.2	13892.8	14245.6	15315.3	15600.8	17440.9	16863.1	14927.8	16199.4	16178.6
60°	14835.0	14849.0	14890.7	15336.3	16723.9	17090.5	19148.8	18116.2	15382.7	16719.3	15612.4
62.5°	16148.4	16169.3	16255.2	16939.7	18615.1	18960.9	20968.1	19141.9	15591.5	16573.0	14150.4
65°	16057.9	16146.1	17104.5	19445.9	21490.3	21831.4	23091.4	19861.2	15275.9	15236.4	11521.3
67.5°	14628.5	14772.3	16375.8	22439.3	25824.9	26205.5	25657.8	20002.8	13913.8	11848.5	7516.1
70°	12753.5	12804.5	14732.9	25131.1	30844.2	31229.4	27955.1	18445.7	10558.3	6608.8	3367.0
72.5°	9959.6	9971.2	12233.7	25755.3	33568.4	33589.4	26152.1	13693.3	5678.3	2538.6	1169.5
75°	7114.6	7045.0	8193.7	20886.8	29533.1	29769.8	19606.0	6423.2	2169.7	1199.7	582.4
77.5°	3814.9	3891.5	4636.4	12386.8	20401.9	20805.7	10697.5	1851.8	1104.5	816.8	385.2
80°	1178.9	1243.8	1900.5	5671.3	11556.2	11799.8	3965.7	823.8	770.4	582.4	253.0
82.5°	371.3	385.2	886.4	2383.1	4796.5	4907.9	1148.6	466.4	526.7	385.2	148.5
85°	106.7	109.1	394.5	888.8	1185.8	1209.0	322.6	181.0	301.7	239.0	76.6
87.5°	11.6	37.1	148.5	148.5	104.4	102.1	34.8	39.5	85.9	30.1	13.9
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°	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0	4590.0
2.5°	4599.3	4601.5	4571.4	4520.4	4464.7	4418.3	4360.2	4313.8	4281.3	4272.1	4288.3
5°	4631.8	4615.5	4529.6	4374.2	4188.6	4028.4	3849.7	3708.1	3615.4	3575.9	3589.9
7.5°	4680.5	4634.0	4446.0	4139.8	3784.7	3469.1	3148.9	2900.6	2742.8	2664.0	2675.6
10°	4722.3	4629.4	4306.8	3801.0	3258.0	2780.0	2348.4	2049.0	1881.9	1803.1	1805.3
12.5°	4761.6	4627.1	4125.8	3399.5	2664.0	2079.2	1677.7	1529.2	1482.8	1466.6	1462.0
15°	4836.0	4634.0	3898.5	2940.1	2072.2	1571.0	1424.7	1422.5	1431.7	1427.1	1424.7
17.5°	4938.0	4641.0	3640.9	2452.8	1598.8	1385.4	1378.4	1399.2	1413.2	1406.2	1403.9
20°	5070.3	4668.9	3367.0	1970.2	1373.7	1339.0	1355.2	1373.7	1385.4	1373.7	1371.4
22.5°	5256.0	4717.6	3067.7	1582.6	1301.9	1311.1	1325.0	1345.9	1357.5	1341.2	1339.0
25°	5483.3	4794.1	2773.0	1376.1	1267.0	1278.6	1299.5	1322.7	1336.6	1320.4	1318.0
27.5°	5778.0	4917.1	2501.5	1329.6	1232.2	1239.1	1269.4	1304.1	1322.7	1301.9	1301.9
30°	6205.0	5119.1	2267.1	1350.5	1211.3	1195.0	1236.9	1285.6	1306.5	1287.9	1285.6
32.5°	6771.3	5404.4	2123.3	1383.0	1202.0	1144.0	1183.5	1246.1	1280.9	1269.4	1269.4
35°	7513.8	5838.4	2067.5	1420.1	1195.0	1090.6	1118.5	1185.8	1246.1	1257.7	1257.7
37.5°	8414.1	6441.7	2083.8	1436.4	1174.1	1046.5	1060.5	1118.5	1197.4	1234.5	1243.8
40°	9437.5	7144.9	2176.6	1420.1	1151.0	1009.4	1011.8	1055.9	1125.4	1181.1	1199.7
42.5°	10493.3	7966.3	2348.4	1359.9	1130.1	976.9	970.0	1000.1	1046.5	1086.0	1102.3
45°	11498.1	8811.0	2517.7	1276.2	1104.5	944.4	928.2	939.8	949.0	965.3	974.6
47.5°	12375.2	9405.0	2469.0	1199.7	1069.8	907.3	879.4	874.8	847.0	844.7	842.3
50°	12980.9	9535.0	2192.9	1123.1	1018.7	865.5	821.4	793.7	744.9	721.7	724.0
52.5°	13173.5	9022.2	1791.4	1046.5	935.2	809.9	747.2	703.2	642.8	621.9	619.6
55°	12918.3	8017.3	1431.7	953.8	819.2	735.6	665.9	607.9	559.2	533.7	533.7
57.5°	12294.1	6738.8	1132.4	844.7	696.2	652.1	582.4	524.4	482.7	457.2	452.5
60°	11259.1	5351.1	895.7	714.7	594.1	561.6	489.6	452.5	415.3	385.2	378.2
62.5°	9688.1	3819.6	703.2	566.2	496.6	459.5	417.7	389.8	345.7	304.0	297.0
65°	7560.2	2336.8	543.0	415.3	399.1	380.6	355.1	329.5	276.1	234.4	227.4
67.5°	4768.6	1106.9	387.6	313.2	315.6	306.3	294.7	273.8	234.4	197.2	192.6
70°	2100.0	536.1	255.2	239.0	234.4	234.4	243.6	236.7	199.6	164.7	157.7
72.5°	714.7	287.7	190.2	181.0	169.4	167.1	204.2	197.2	160.1	127.6	120.6
75°	373.6	192.6	139.2	130.0	102.1	123.0	162.5	153.1	113.7	83.5	76.6
77.5°	243.6	136.9	95.1	83.5	58.0	81.2	120.6	106.7	67.3	41.8	37.1
80°	153.1	90.5	55.7	39.5	27.9	44.1	65.0	46.4	25.5	9.3	7.0
82.5°	81.2	46.4	20.9	13.9	11.6	13.9	16.2	11.6	4.6	0.0	0.0
85°	32.5	16.2	7.0	4.6	2.4	0.0	4.6	2.4	0.0	0.0	0.0
87.5°	11.6	2.4	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)