

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: P885358

Luminaire Tested: **NAV-SB6C-835-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885358
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-SB6C-835-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA 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: 30080 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

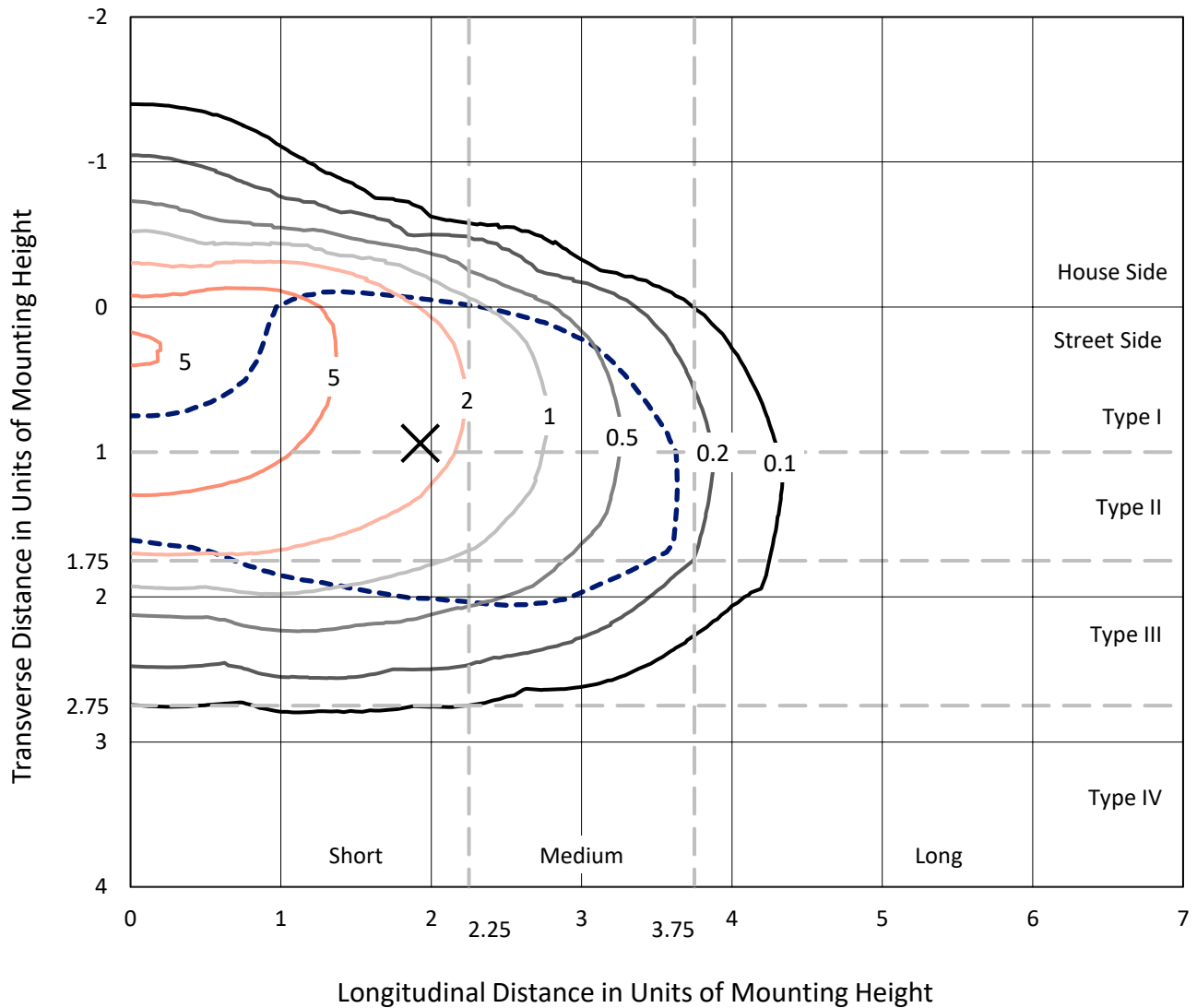
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885358
 CATALOG NUMBER: NAV-SB6C-835-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

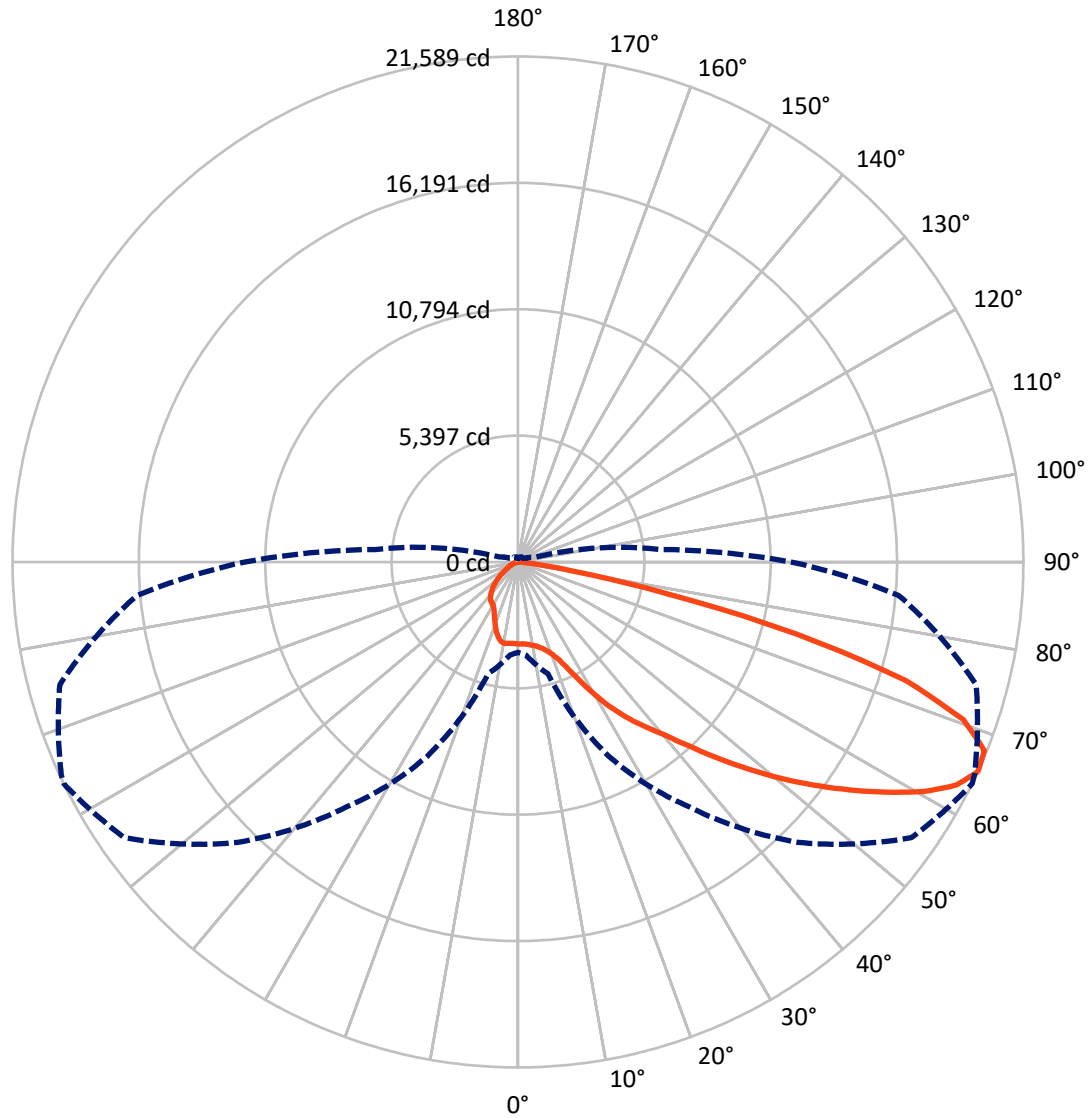
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

REPORT NUMBER: P885358
CATALOG NUMBER: NAV-SB6C-835-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P885358

CATALOG NUMBER: NAV-SB6C-835-U-T3-HSS

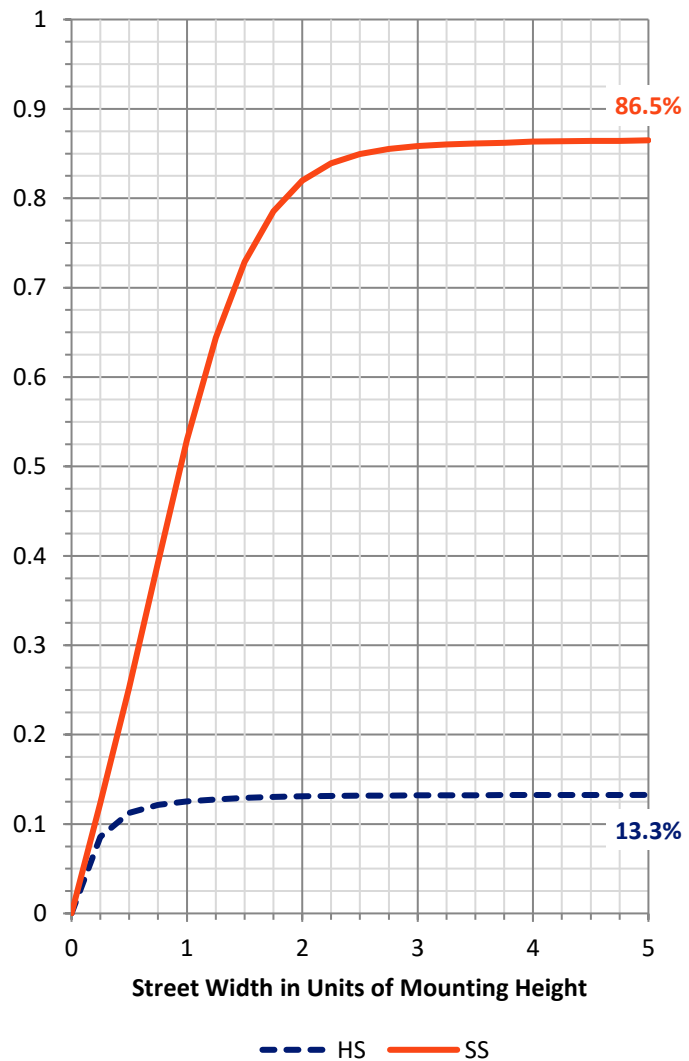
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4022.6	0.0	4022.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26057.4	0.0	26057.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	30080.0	0.0	30080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	1.1
10°-20°	875.5	2.9
20°-30°	1659.0	5.5
30°-40°	3356.9	11.2
40°-50°	5718.6	19.0
50°-60°	7776.8	25.9
60°-70°	7302.8	24.3
70°-80°	2925.8	9.7
80°-90°	141.7	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°	30080.0	100.0
0°-180°	30080.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885358

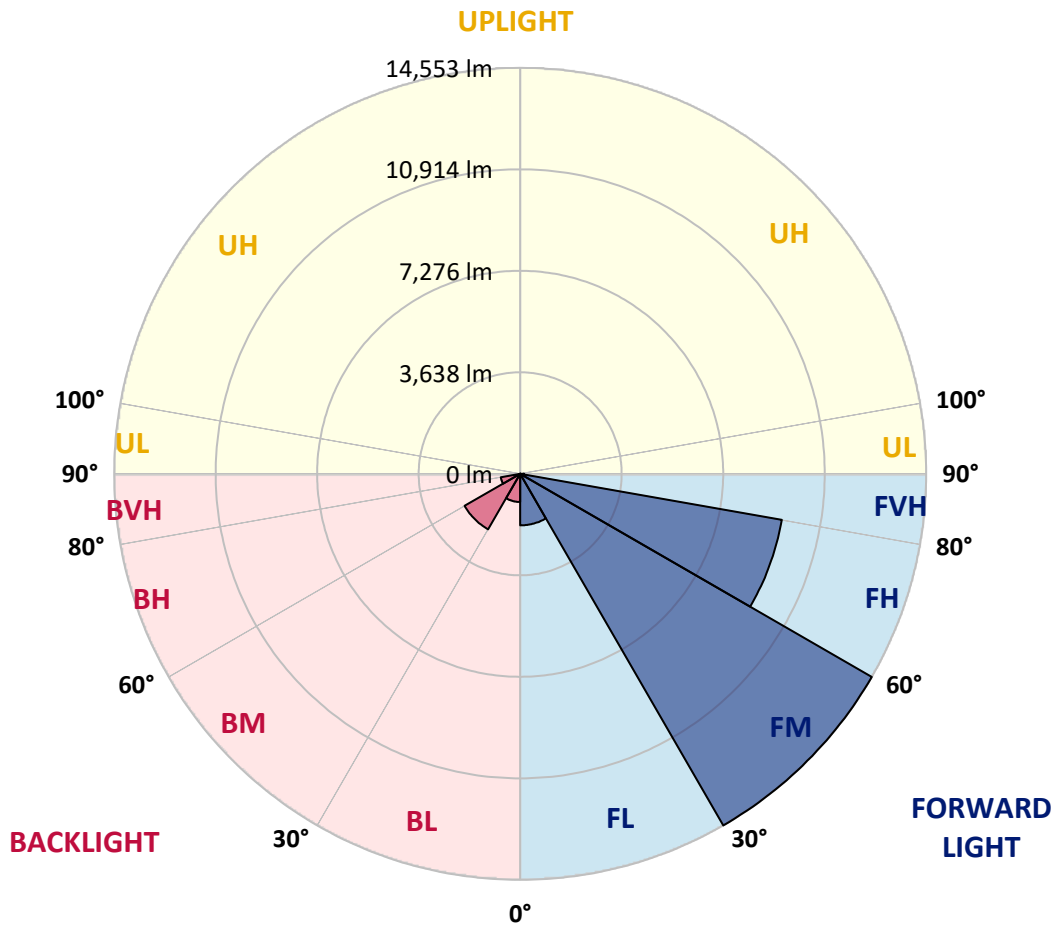
CATALOG NUMBER: NAV-SB6C-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1847.3	6.1			
FM (30°-60°)	14552.7	48.4			
FH (60°-80°)	9522.6	31.7			G4/12000
FVH (80°-90°)	134.8	0.4			G2/225
BL (0°-30°)	1010.0	3.4	B3/2500		
BM (30°-60°)	2299.7	7.6	B2/2500		
BH (60°-80°)	706.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.9	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-G4

Type III Short



REPORT NUMBER: P885358

CATALOG NUMBER: NAV-SB6C-835-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6
2.5°	3486.5	3510.7	3504.7	3498.6	3496.6	3500.6	3502.6	3500.6	3500.6	3500.6	3502.6
5°	3420.0	3440.1	3440.1	3454.3	3474.4	3498.6	3516.8	3520.8	3524.8	3530.9	3528.9
7.5°	3292.9	3309.1	3321.2	3367.5	3418.0	3482.5	3536.9	3565.2	3569.2	3591.4	3599.4
10°	3206.2	3226.4	3246.6	3295.0	3367.5	3464.3	3557.1	3625.7	3635.7	3688.2	3712.4
12.5°	3202.2	3222.4	3248.6	3301.0	3385.7	3488.5	3601.5	3700.3	3718.4	3795.0	3845.5
15°	3244.5	3268.7	3292.9	3357.5	3448.2	3573.2	3694.2	3817.2	3835.4	3944.3	3998.7
17.5°	3331.2	3363.5	3381.7	3446.2	3543.0	3682.1	3841.4	3982.6	3998.7	4125.7	4194.3
20°	3502.6	3541.0	3547.0	3599.4	3694.2	3843.4	4033.0	4208.4	4228.6	4373.8	4450.4
22.5°	3857.6	3912.0	3863.6	3889.8	3974.5	4123.7	4329.4	4551.2	4579.5	4744.8	4813.4
25°	4482.7	4559.3	4434.3	4389.9	4426.2	4581.5	4839.6	5119.9	5152.1	5285.2	5319.5
27.5°	5710.7	5611.9	5422.4	5236.8	5127.9	5216.7	5507.0	5853.9	5894.2	6023.3	5982.9
30°	7059.7	6973.0	6716.9	6305.6	6047.5	6033.3	6301.5	6688.7	6735.1	6858.1	6735.1
32.5°	8410.8	8328.1	8049.8	7543.7	7096.0	6874.2	7059.7	7489.3	7513.5	7592.1	7410.6
35°	9739.7	9655.0	9376.7	8858.5	8308.0	7803.8	7767.5	8251.5	8259.6	8342.2	8072.0
37.5°	11076.6	11006.0	10709.6	10201.4	9659.0	8963.3	8626.6	8973.4	8983.5	9064.1	8783.8
40°	12030.4	12060.6	11857.0	11463.8	10998.0	10237.7	9590.4	9741.7	9681.2	9816.3	9648.9
42.5°	12849.1	12909.6	12732.1	12534.5	12264.3	11594.8	10784.2	10758.0	10661.2	10733.8	10560.4
45°	13556.9	13607.3	13448.0	13401.6	13395.6	12925.7	12088.9	11931.6	11796.5	11782.4	11574.7
47.5°	13817.0	13913.8	13982.4	14137.6	14440.1	14242.5	13437.9	13193.9	13042.7	12931.8	12603.1
50°	13915.8	14018.7	14252.6	14704.3	15420.1	15504.8	14780.9	14506.7	14321.1	14119.5	13635.5
52.5°	13782.7	13966.2	14280.8	15041.0	16079.5	16517.1	16069.4	15829.5	15617.7	15289.1	14571.2
55°	12998.3	13181.8	13825.1	15037.0	16408.2	17226.9	17287.4	17180.5	16942.6	16424.3	15327.4
57.5°	11344.8	11617.0	12635.3	14524.8	16402.2	17837.9	18481.2	18557.8	18291.6	17549.5	15922.2
60°	9054.1	9423.1	10665.2	13389.5	15896.0	18168.6	19527.7	19910.9	19628.5	18658.6	16404.2
62.5°	6317.7	6745.2	7920.8	11611.0	14738.6	17930.7	20292.0	20999.8	20786.0	19650.7	16589.7
65°	3853.5	3990.6	4938.4	9136.7	12770.5	16934.5	20527.9	21588.6	21518.0	20257.7	16315.4
67.5°	2567.0	2681.9	2954.2	6265.2	9913.1	14944.2	19963.3	21485.7	21505.9	20158.9	15311.2
70°	1546.7	1645.5	1822.9	3643.8	6424.5	11828.8	18215.0	20175.0	20292.0	18838.1	13407.7
72.5°	637.2	703.8	865.1	1651.5	3327.2	7507.4	14504.6	17321.7	17593.9	15839.6	10290.2
75°	361.0	395.2	508.2	828.8	1443.8	3498.6	8785.9	12296.6	12697.9	10917.3	6190.6
77.5°	240.0	256.1	328.7	536.4	812.6	1193.8	3754.7	6406.4	7172.7	5962.8	2679.9
80°	161.3	175.4	225.8	358.9	528.3	512.2	1195.8	2373.4	2919.9	2048.8	653.3
82.5°	108.9	110.9	161.3	235.9	334.7	248.0	352.9	738.0	927.6	592.8	248.0
85°	62.5	60.5	119.0	137.1	149.2	102.8	106.9	221.8	290.4	250.0	141.2
87.5°	8.1	12.1	46.4	36.3	20.2	22.2	22.2	38.3	56.5	60.5	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885358

CATALOG NUMBER: NAV-SB6C-835-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6	3498.6
2.5°	3502.6	3500.6	3494.6	3488.5	3474.4	3466.4	3470.4	3466.4	3464.3	3466.4	3474.4
5°	3528.9	3522.8	3506.7	3486.5	3458.3	3424.0	3401.8	3369.6	3339.3	3321.2	3325.2
7.5°	3599.4	3593.4	3571.2	3514.7	3424.0	3280.8	3149.8	3034.8	2948.1	2897.7	2899.7
10°	3712.4	3702.3	3668.0	3543.0	3305.0	2992.5	2732.3	2516.6	2375.4	2308.9	2302.8
12.5°	3845.5	3833.4	3772.9	3516.8	3079.2	2591.2	2232.3	1992.3	1861.2	1802.7	1796.7
15°	4002.7	3986.6	3867.6	3391.7	2750.5	2147.6	1818.9	1639.4	1554.7	1502.3	1504.3
17.5°	4198.3	4170.1	3938.2	3204.2	2393.6	1808.8	1564.8	1429.7	1355.1	1304.7	1300.6
20°	4452.4	4406.0	3994.7	2980.4	2064.9	1595.0	1393.4	1280.5	1224.0	1179.6	1171.6
22.5°	4807.3	4740.8	4063.2	2738.4	1833.0	1447.8	1266.4	1183.7	1137.3	1086.9	1078.8
25°	5246.9	5168.3	4147.9	2514.6	1673.7	1320.8	1173.6	1105.0	1050.6	992.1	986.1
27.5°	5861.9	5720.8	4248.8	2331.1	1536.6	1211.9	1088.9	1012.3	949.8	901.4	891.3
30°	6547.6	6315.7	4337.5	2220.2	1411.5	1111.1	978.0	901.4	842.9	808.6	802.6
32.5°	7196.9	6882.3	4396.0	2171.8	1298.6	996.1	857.0	774.3	730.0	719.9	725.9
35°	7809.9	7394.5	4389.9	2125.4	1197.8	881.2	738.0	653.3	619.1	625.1	625.1
37.5°	8515.7	7941.0	4347.6	2052.8	1115.1	776.4	635.2	560.6	530.3	532.4	540.4
40°	9336.4	8572.1	4321.3	1915.7	1024.4	679.6	550.5	490.0	467.8	459.8	457.7
42.5°	10211.5	9183.1	4325.4	1760.4	911.5	592.8	492.0	441.6	421.4	415.4	413.4
45°	11090.7	9765.9	4331.4	1599.1	792.5	526.3	449.7	407.3	395.2	387.2	387.2
47.5°	11917.5	10261.9	4218.5	1425.7	675.5	475.9	415.4	387.2	377.1	367.0	367.0
50°	12687.8	10592.6	3946.3	1224.0	582.8	435.6	389.2	369.0	358.9	348.9	348.9
52.5°	13286.7	10645.1	3496.6	1016.3	518.2	405.3	373.1	354.9	342.8	332.7	330.7
55°	13552.9	10316.4	2857.4	822.7	467.8	379.1	356.9	338.8	324.7	314.6	312.6
57.5°	13484.3	9624.7	2228.2	661.4	419.4	352.9	336.8	324.7	308.5	292.4	290.4
60°	13147.5	8699.2	1679.7	550.5	375.1	324.7	314.6	304.5	282.3	258.1	254.1
62.5°	12564.8	7535.6	1197.8	455.7	326.7	292.4	288.4	280.3	248.0	203.7	199.6
65°	11673.5	6122.1	806.6	379.1	280.3	256.1	258.1	244.0	201.6	151.2	147.2
67.5°	10370.8	4476.6	516.2	310.5	233.9	213.7	215.8	207.7	171.4	129.1	123.0
70°	8711.3	2964.2	336.8	235.9	187.5	165.4	177.5	179.5	145.2	104.9	100.8
72.5°	6386.2	1750.3	235.9	175.4	137.1	114.9	145.2	149.2	117.0	78.6	74.6
75°	3639.8	830.8	177.5	127.0	84.7	80.7	112.9	112.9	80.7	52.4	48.4
77.5°	1528.5	346.8	125.0	82.7	48.4	46.4	76.6	70.6	40.3	24.2	24.2
80°	441.6	155.3	66.5	40.3	20.2	18.1	30.2	22.2	10.1	4.0	4.0
82.5°	173.4	68.6	26.2	16.1	8.1	8.1	4.0	0.0	0.0	0.0	0.0
85°	102.8	28.2	12.1	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.2	6.0	4.0	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)